

NANYANG PRIMARY SCHOOL

**TERM 1 WEIGHTED ASSESSMENT
2023**

PRIMARY 6

**MATHEMATICS
PAPER 1
(BOOKLET A)**

Total Duration for Booklets A and B: 1 hour

Additional materials: Optical Answer Sheet (OAS)

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Shade your answers in the Optical Answer Sheet (OAS) provided.
5. The use of calculators is **NOT** allowed.

Name: _____ ()

Class: Primary 6 ()

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet. (20 marks)

- 1 Janice is $\frac{5}{7}$ as tall as Xiao Ming. What is the ratio of Xiao Ming's height to Janice's height?

- (1) 5 : 7
- (2) 7 : 5
- (3) 5 : 12
- (4) 7 : 12

- 2 A pail contains 28 ℓ of water. A tank contains 800 times as much water as the pail. How many litres of water are there in the tank?

- (1) 16 400 ℓ
- (2) 22 400 ℓ
- (3) 64 400 ℓ
- (4) 224 000 ℓ

3 What is the value of $\frac{2}{3} + \frac{1}{5}$?

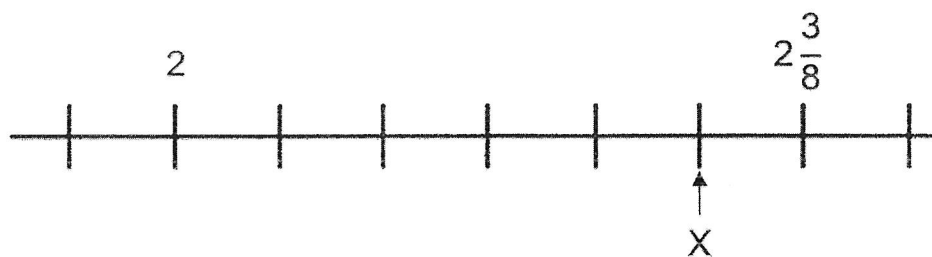
(1) $\frac{3}{8}$

(2) $\frac{3}{15}$

(3) $\frac{2}{15}$

(4) $\frac{13}{15}$

4 In the number line below, what is the value of \underline{X} ?



(1) $2\frac{1}{4}$

(2) $2\frac{3}{15}$

(3) $2\frac{5}{16}$

(4) $2\frac{1}{2}$

5 What is the value of $\frac{3}{7} \times \frac{5}{2}$?

(1) $\frac{8}{9}$

(2) $\frac{15}{14}$

(3) $\frac{15}{9}$

(4) $\frac{6}{35}$

6 $\frac{3}{4}$ of a pizza was shared equally among 5 people. What fraction of the pizza did each person receive?

(1) $\frac{3}{20}$

(2) $\frac{4}{15}$

(3) $\frac{20}{3}$

(4) $\frac{7}{45}$

7 Express 10.01 kg in kilograms and grams.

- (1) 1 kg 1 g
- (2) 10 kg 1 g
- (3) 10 kg 10 g
- (4) 100 kg 10 g

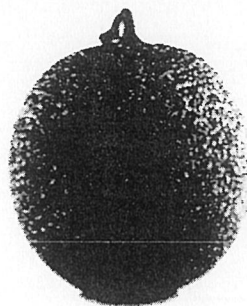
8 Ninety identical pencils cost \$57.60. What is the cost of one such pencil?

- (1) \$0.54
- (2) \$0.64
- (3) \$0.74
- (4) \$6.40

9 Sathya had 250 fruits. 50 of them were papayas, 110 of them were mangoes and the rest were pears. What percentage of her fruits were pears?

- (1) 20%
- (2) 36%
- (3) 44%
- (4) 64%

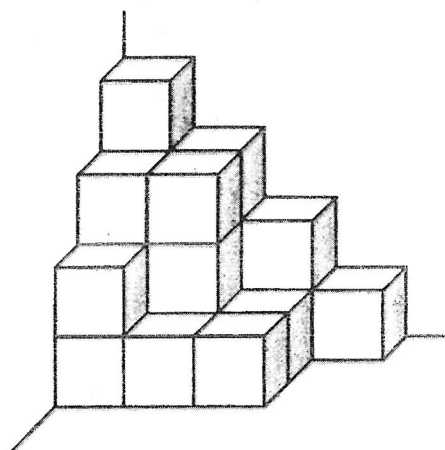
- 10 Which one of the following is likely to be the mass of a honeydew sold in a supermarket?



- (1) 2.5 g
 - (2) 25 g
 - (3) 2.5 kg
 - (4) 250 kg
- 11 The length, breadth and height of a box are in the ratio 3 : 2 : 1 respectively. The length of the box is 6 cm. Find the volume of the box.

- (1) 12 cm^3
- (2) 18 cm^3
- (3) 36 cm^3
- (4) 48 cm^3

- 12 The solid below is made up of 1-cm cubes. How many more 1-cm cubes must be added to the solid to make it a cuboid measuring 4 cm by 3 cm by 4 cm?



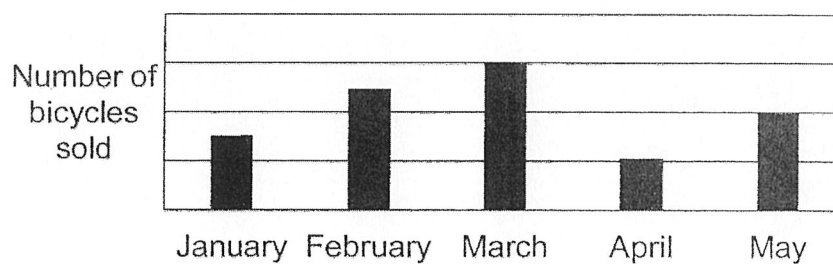
- (1) 27
- (2) 28
- (3) 29
- (4) 30

- 13 The table below shows the number of bicycles sold each month by a shop.

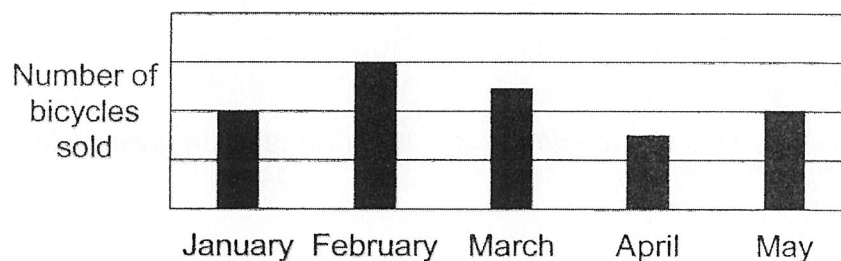
Month	Number of bicycles sold
January	53
February	150
March	124
April	76
May	99

Which of the following bar graphs best represents the information shown in the table?

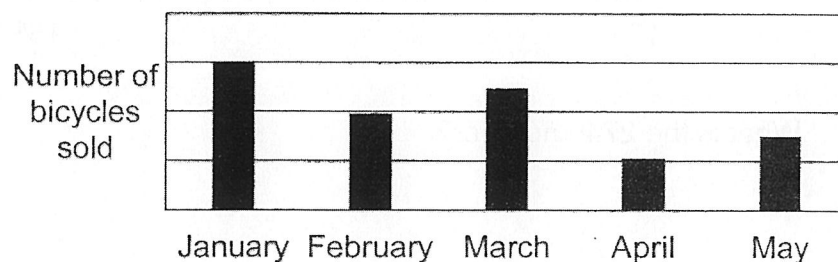
(1)



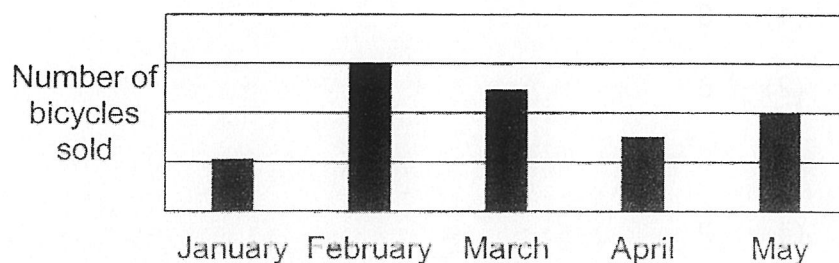
(2)



(3)



(4)



- 14 Sally had some apples. $\frac{3}{5}$ of the apples were red. She then gave $\frac{1}{2}$ of the red apples to her sister. What fraction of Sally's apples were given to her sister?

(1) $\frac{1}{5}$

(2) $\frac{5}{6}$

(3) $\frac{1}{10}$

(4) $\frac{3}{10}$

- 15 The first 15 numbers of a number pattern are given below.

9, 0, 8, 6, 9, 0, 8, 6, 9, 0, 8, 6, 9, 0, 8, ...
1st 15th

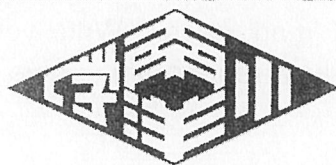
What is the 274th number?

(1) 0

(2) 6

(3) 8

(4) 9



NANYANG PRIMARY SCHOOL

**TERM 1 WEIGHTED ASSESSMENT
2023**

PRIMARY 6

**MATHEMATICS
PAPER 1
(BOOKLET B)**

Total Duration for Booklets A and B: 1 hour

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Write your answers in this booklet.
5. The use of calculators is **NOT** allowed.

Name: _____ ()

Class: Primary 6 ()

Booklet B

/ 25

Please sign and return the examination paper the next day. Any queries should be raised at the same time when returning paper.

Questions **16** to **20** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

16 Find the value of $72 \div 8 - 2 \times 3 + 77$.

Ans: _____

17 The breadth of a rectangle is $\frac{5}{6}$ m and its area is 2 m^2 . Find the length of the rectangle. Express your answer as a mixed number in its simplest form.

Ans: _____ m

- 18 The ratio of Shina's test marks to Kyle's test marks was 3 : 7. Shina scored 16 fewer marks than Kyle. How many marks did Kyle score?

Ans: _____

- 19 Round 199.99 to 1 decimal place.

Ans: _____

- 20 Mrs Pereira baked 400 tarts. 45% of the tarts she baked were egg tarts while the rest were chocolate tarts. How many chocolate tarts did Mrs Pereira bake?

Ans: _____

Questions **21** to **30** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

21 75% of a number is 36. What is the number?

Ans: _____

22 Derinda had 25 m of ribbon. She used it to make as many flowers as possible. She used $\frac{2}{3}$ m of ribbon to make each flower. How many metres of the ribbon were left?

Ans: _____ m

- 23 Brenda had 6 ℓ of orange juice. She drank $\frac{1}{2}$ of it in the morning and gave $\frac{1}{4}$ ℓ of it to her brother. How much orange juice did she have left in the end?

Ans: _____ ℓ

- 24 In a camp, the number of children is $\frac{3}{8}$ of the number of adults. $\frac{2}{9}$ of the children are boys and there is an equal number of men and women. What is the ratio of the number of girls to the number of women?

Ans: _____

- 25** Clarence, Amir and Jun Wei received some stickers. The ratio of the number of stickers that Clarence received to the number of stickers Amir received was $4 : 9$. The ratio of the number of stickers Jun Wei received to the number of stickers Amir received was $4 : 3$. Clarence received 24 stickers. How many stickers did Jun Wei receive?

Ans: _____

- 26** The ratio of the number of sweets Rachel had to the number of sweets Euodia had was $2 : 3$ at first. After Rachel bought 8 more sweets, the ratio of the number of sweets Rachel had to the number of sweets Euodia had became $5 : 6$. How many sweets did Euodia have?

Ans: _____

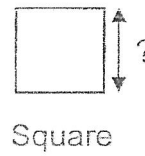
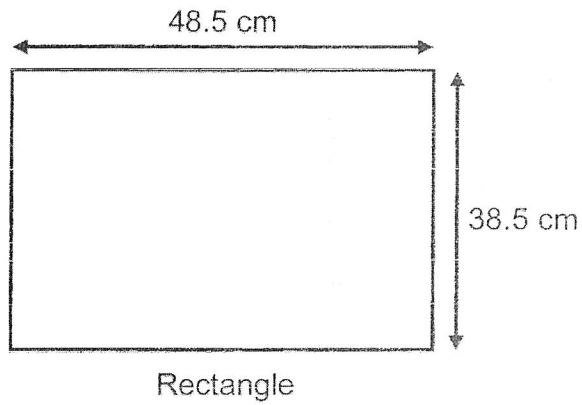
- 27 Mr Tan had \$20 more than Mr Lee at first. After Mr Tan spent \$50 and Mr Lee spent half of his money, both of them had the same amount of money left. How much money did Mr Lee have at first?

Ans: \$ _____

- 28 Diane wanted to train for a marathon. She started by running 1.6 km in the first week. She increased her distance by 1.2 km every week from the previous week. Find the total distance that she ran in the first 5 weeks.

Ans: _____ km

- 29 A wire 210 cm long was cut into 2 pieces and bent to form a rectangle and a square. The length of the rectangle is 48.5 cm and its breadth is 38.5 cm. Find the length of one side of the square.



Ans: _____ cm

- 30 The table below shows the number of toys collected by Sunshine Centre in Year 2021 and Year 2022. Part of the table is covered by an ink blot. The number of soft toys collected and the total number of toys collected were both three-digit numbers.

Type of Toys	Year 2021	Year 2022
Wooden Toys	121	80
Electronic Toys	65	74
Soft Toys	18	200
Total number of toys	3	354

Each of the statements is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) to indicate your answer.

Statement	True	False	Not possible to tell
In Year 2021, more than 50% of the toys collected were soft toys.			
In Year 2021, 20% of the toys collected were electronic toys.			
In Year 2022, the number of wooden toys collected was 40% of the number of soft toys collected.			

End of Paper



NANYANG PRIMARY SCHOOL

**TERM 1 WEIGHTED ASSESSMENT
2023**

PRIMARY 6

**MATHEMATICS
PAPER 2**

Duration: 1 hour 30 minutes

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Write your answers in this booklet.
5. The use of an approved calculator is allowed.

Name: _____ ()

Class: Primary 6 ()

Parent's Signature: _____

Booklet A	/ 20
Booklet B	/ 25
Paper 2	/ 55
Total	/ 100

Please sign and return the examination paper the next day. Any queries should be raised at the same time when returning paper.

Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

- 1 Jasper ran $6\frac{1}{10}$ km. Irfan ran $2\frac{7}{16}$ km more than Jasper. How far did they run altogether?

Ans: _____ km

- 2 The mass of each sack of rice is $4\frac{1}{5}$ kg. Find the total mass of 45 such sacks of rice.

Ans: _____ kg

- 3 Joy had a meal that cost \$32.50 before GST at a restaurant. What was the cost of her meal after adding 8% GST?

Ans: \$ _____

- 4 Danny's scores for 5 games are shown in the table below.

Game	1 st	2 nd	3 rd	4 th	5 th
Score	8	0	7	16	9

Find his average score.

Ans: _____

- 5 Siti has the exact amount of money to buy 84 bottled drinks or 126 canned drinks. She has already spent some of the money to buy 39 canned drinks and 42 bottled drinks. How many more bottled drinks can she buy with the remaining money?

Ans: _____

For questions 6 to 17, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question. (45 marks)

- 6 Miss Wong bought two identical suitcases at a year-end sale. The two suitcases cost \$174 after discount. Find the price of one such suitcase before discount.



Ans: _____ [3]

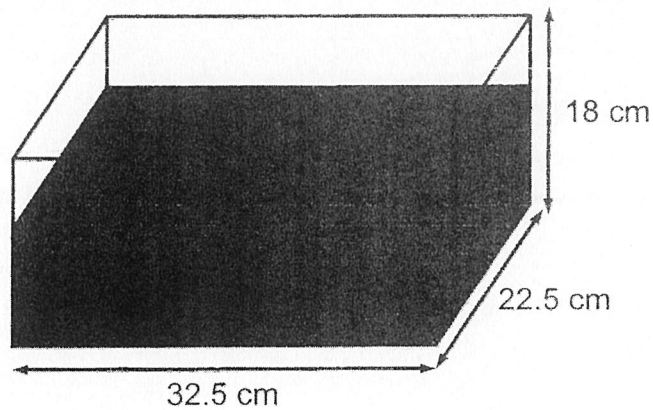
- 7 Mr Mohammad took a taxi from home to his office.
His taxi fare was based on the charges shown below.

First 1 kilometre or less	\$4.30
Every additional 400 m or less	\$0.24
Every 45 seconds of <u>waiting</u> or less	\$0.24

The taxi stopped once at a traffic light and travelled a total distance of 7 km to reach his office. Mr Mohammad paid \$9.10. What was the longest possible duration the taxi stopped at the traffic light?

Ans: _____ [3]

- 8 A rectangular tank measuring 32.5 cm by 22.5 cm by 18 cm was $\frac{5}{9}$ -filled with water as shown below. When Kamala poured 7 litres of water into the tank, some water overflowed. Find the volume of water that overflowed. Give your answer in litres.



Ans: _____ [3]

- 9 Amrit had some sugar at first. He used 275 g of sugar to bake some muffins and $\frac{3}{5}$ of the remaining sugar to bake some cookies. In the end, he had $\frac{1}{8}$ of the sugar left. How much sugar did he have at first?

Ans: _____ [3]

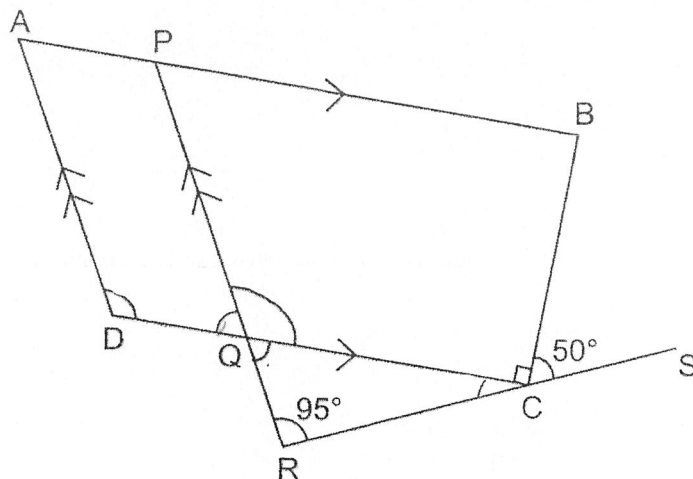
- 10 In a class of 42 children, the average mass of the children was 37.5 kg. The average mass of the girls in the class was 36.7 kg. The average mass of the boys in the class was 38.8 kg. How many more girls than boys were there in the class?

Ans: _____ [3]

- 11 A group of children is put into 2 halls, hall A and hall B. The ratio of the number of children in hall A to the number of children in hall B is 3 : 8. In hall A, the ratio of the number of boys to the number of girls is 5 : 2. There are 18 girls in hall A. Find the total number of children in both halls.

Ans: _____ [3]

- 12 In the figure below, ABCD is a trapezium. APB, DQC, RCS and PQR are straight lines. APB is parallel to DQC and AD is parallel to PQR. $\angle BCS = 50^\circ$, $\angle BCQ = 90^\circ$ and $\angle QRC = 95^\circ$.



- (a) Find $\angle DQP$.

Ans: (a) _____ [2]

- (b) Find $\angle ADQ$.

Ans: (b) _____ [2]

- 13 Ashraf had some money at first. He spent 15% of it on food and \$810 on a new laptop. He then gave 20% of the remainder to his brother. In the end, he had \$304 left.

(a) How much money did Ashraf give to his brother?

Ans: (a) _____ [2]

(b) How much money did Ashraf have at first?

Ans: (b) _____ [3]

- 14 Susan had 117 beads and marbles altogether. The beads and marbles were either white or black. 20% of the beads and 50% of the marbles were white. There were as many black beads as black marbles.

- (a) In the statement below, circle the phrase 'more than', 'fewer than' or 'the same as' that correctly describes the comparison between the number of beads and marbles Susan had.

<p>The number of beads Susan had was</p> <p>(more than / fewer than / the same as)</p> <p>the number of marbles she had.</p>
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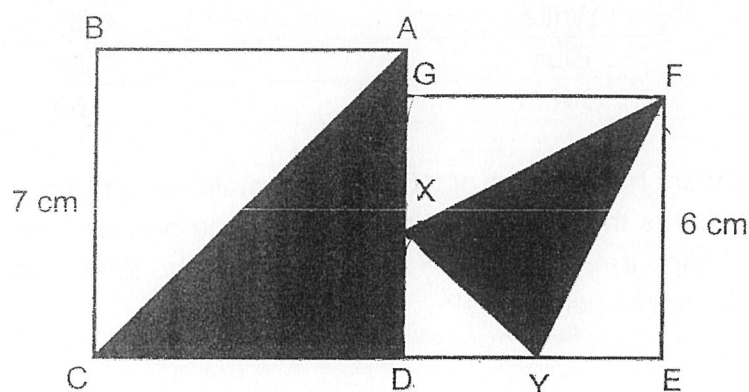
- (b) How many beads did Susan have?

Ans: (b) _____ [3]

- 15 Christopher and Helen had 1044 erasers altogether at first. Christopher gave $\frac{4}{5}$ of his erasers to his brother. Helen gave $\frac{5}{8}$ of her erasers to her sister. In the end, Helen had 150 erasers more than Christopher. How many erasers did Christopher have at first?

Ans: _____ [4]

- 16 The figure below is made up of 2 squares, ABCD and DEFG. X is a point on GD and Y is a point on DE. $BC = 7$ cm, $FE = 6$ cm and $XD = DY = YE$.



- (a) Find the total area of the shaded parts.

Ans: (a) _____ [3]

- (b) What fraction of the figure is unshaded?

Ans: (b) _____ [2]

- 17 The table below shows the number of clips in different coloured containers.

Colour of container	Number of clips in each container
White	30
Blue	50
Green	60

- (a) Gwen has a total of 10 white containers and green containers. What is the smallest possible difference between the total number of clips in Gwen's white containers and the total number of clips in her green containers?

Ans: (a) _____ [2]

- (b) Clement has some white containers and some blue containers. The ratio of the total number of clips in Clement's white containers to the total number of clips in his blue containers is 3 : 2. Express the number of his blue containers as a fraction of the total number of his containers.

Ans: (b) _____ [3]

End of Paper



NANYANG PRIMARY SCHOOL

TERM 1 WEIGHTED ASSESSMENT
2023

PRIMARY 6

MATHEMATICS
PAPER 1
(BOOKLET A)

Total Duration for Booklets A and B: 1 hour

Additional materials: Optical Answer Sheet (OAS)

INSTRUCTIONS TO PUPILS

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Name: _____ ()

Primary 6 ()

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet. (20 marks)

- 1 Janice is $\frac{5}{7}$ as tall as Xiao Ming. What is the ratio of Xiao Ming's height to Janice's height?

$$\text{Xiao Ming} : \text{Janice} \\ 7 : 5$$

(1) 5 : 7

(2) 7 : 5

(3) 5 : 12

(4) 7 : 12

(2)

- 2 A pail contains 28 l of water. A tank contains 800 times as much water as the pail. How many litres of water are there in the tank?

(1) 16 400 l

(2) 22 400 l

(3) 64 400 l

(4) 224 000 l

$$28 \times 800 = 28 \times 8 \times 100$$

$$= 224 \times 100$$

$$= 22\,400$$

(2)

$$\begin{array}{r} 28 \\ \times 8 \\ \hline 224 \end{array}$$

- 3 What is the value of $\frac{2}{3} + \frac{1}{5}$?

(1) $\frac{3}{8}$

(2) $\frac{3}{15}$

(3) $\frac{2}{15}$

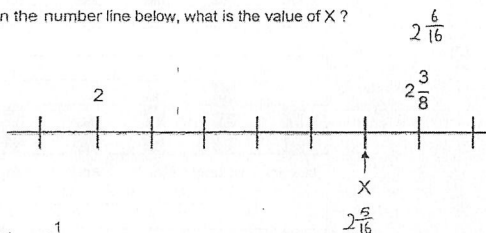
(4) $\frac{13}{15}$

$$\frac{10}{15} + \frac{3}{15}$$

$$= \frac{13}{15}$$

(4)

- 4 In the number line below, what is the value of X?



(1) $2\frac{1}{4}$

(2) $2\frac{3}{15}$

(3) $2\frac{5}{16}$

(4) $2\frac{1}{2}$

(3)

- 5 What is the value of $\frac{3}{7} \times \frac{5}{2}$?

(1) $\frac{8}{9}$

(2) $\frac{15}{14}$

(3) $\frac{15}{9}$

(4) $\frac{6}{35}$

$$\frac{3}{7} \times \frac{5}{2} = \frac{15}{14}$$

(2)

- 6 $\frac{3}{4}$ of a pizza was shared equally among 5 people. What fraction of the pizza did each person receive?

(1) $\frac{3}{20}$

(2) $\frac{4}{15}$

(3) $\frac{20}{3}$

(4) $\frac{7}{45}$

$$\frac{3}{4} \div 5$$

$$= \frac{3}{4} \times \frac{1}{5}$$

$$= \frac{3}{20}$$

(1)

7 Express 10.01 kg in kilograms and grams.

- (1) 1 kg 1 g
(2) 10 kg 1 g
(3) 10 kg 10 g
(4) 100 kg 10 g

$$0.01 \times 1000 = 10$$

(3)

8 Ninety identical pencils cost \$57.60. What is the cost of one such pencil?

- (1) \$0.54
(2) \$0.64
(3) \$0.74
(4) \$6.40

$$\begin{aligned} \$57.60 \div 90 &= \$57.60 \div 9 \div 10 \\ &= \$6.40 \div 10 \\ &= \$0.64 \end{aligned}$$

(2)

$$\begin{array}{r} 6.40 \\ 9 \overline{) 57.60} \\ \underline{-54} \\ 36 \\ \underline{-36} \\ 0 \end{array}$$

9 Sathiya had 250 fruits. 50 of them were papayas, 110 of them were mangoes and the rest were pears. What percentage of her fruits were pears?

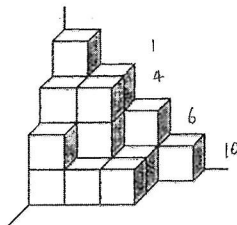
- (1) 20%
(2) 36%
(3) 44%
(4) 64%

$$\begin{aligned} \text{pears} &\rightarrow 250 - 50 - 110 \\ &= 200 - 110 \\ &= 90 \end{aligned}$$

(2)

$$\begin{aligned} \frac{90}{250} &= \frac{9 \times 10}{25 \times 10} \\ &= \frac{36}{100} \\ &= 36\% \end{aligned}$$

12 The solid below is made up of 1 cm cubes. How many more 1-cm cubes must be added to the solid to make it a cuboid measuring 4 cm by 3 cm by 4 cm?



$$\begin{aligned} 4 \times 3 \times 4 &= 12 \times 4 \\ &= 48 \end{aligned}$$

- (1) 27
(2) 28
(3) 29
(4) 30

$$1 + 4 + 6 + 10 = 21$$

$$48 - 21 = 27$$

(1)

10 Which one of the following is likely to be the mass of a honeydew sold in a supermarket?



(3)

- (1) 2.5 g
(2) 25 g
(3) 2.5 kg
(4) 250 kg

11 The length, breadth and height of a box are in the ratio 3 : 2 : 1 respectively. The length of the box is 6 cm. Find the volume of the box.

- (1) 12 cm³
(2) 18 cm³
(3) 36 cm³
(4) 48 cm³

$$\begin{aligned} 3 \text{ units} &= 6 \text{ cm} \\ 1 \text{ unit} &= 6 \div 3 \\ &= 2 \\ 2 \text{ units} &= 2 \times 2 \\ &= 4 \end{aligned}$$

$$\begin{aligned} \text{Volume} &= \text{Length} \times \text{Breadth} \times \text{Height} \\ &= 6 \times 4 \times 2 \\ &= 24 \times 2 \\ &= 48 \end{aligned}$$

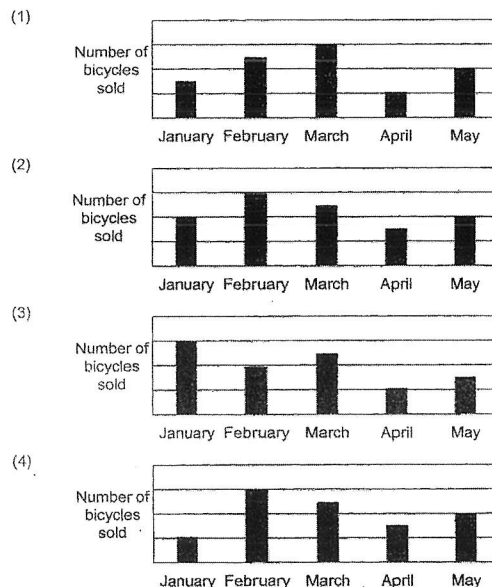
(4)

13 The table below shows the number of bicycles sold each month by a shop.

Month	Number of bicycles sold
January	53
February	150
March	124
April	76
May	99

→ least
→ most

Which of the following bar graphs best represents the information shown in the table?



(14)

- 14 Sally had some apples. $\frac{3}{5}$ of the apples were red. She then gave $\frac{1}{2}$ of the red apples to her sister. What fraction of Sally's apples were given to her sister?

$$\frac{3}{5} \times \frac{1}{2} = \frac{3}{10}$$

(1) $\frac{1}{5}$
 (2) $\frac{5}{6}$
 (3) $\frac{1}{10}$
 (4) $\frac{3}{10}$

(4)

- 15 The first 15 numbers of a number pattern are given below.

pattern
 9, 0, 8, 6, 9, 0, 8, 6, 9, 0, 8, 6, 9, 0, 8, ...
 1st 15th

What is the 274th number?

$$274 \div 4 = 68R2$$

(1) 0
 (2) 6
 (3) 8
 (4) 9

(1)

$$\begin{array}{r} 68 \\ 4 \overline{) 274} \\ \underline{-24} \\ 34 \\ \underline{-32} \\ 2 \end{array}$$

8

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

- 16 Find the value of $72 \div 8 - 2 \times 3 + 77$.

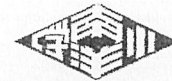
$$\begin{aligned} & 72 \div 8 - 2 \times 3 + 77 \\ &= 9 - 2 \times 3 + 77 \\ &= 9 - 6 + 77 \\ &= 3 + 77 \\ &= 80 \text{ (ans)} \end{aligned}$$

Ans: 80

- 17 The breadth of a rectangle is $\frac{5}{6}$ m and its area is 2 m². Find the length of the rectangle. Express your answer as a mixed number in its simplest form.

$$\begin{aligned} \text{Length} &= 2 \div \frac{5}{6} \\ &= \frac{2}{1} \times \frac{6}{5} \\ &= \frac{12}{5} \\ &= 2\frac{2}{5} \text{ m (ans)} \end{aligned}$$

Ans: 2 $\frac{2}{5}$ m



NANYANG PRIMARY SCHOOL

TERM 1 WEIGHTED ASSESSMENT
2023

PRIMARY 6

MATHEMATICS
PAPER 1
(BOOKLET B)

Total Duration for Booklets A and B: 1 hour

INSTRUCTIONS TO PUPILS

- Do not turn over this page until you are told to do so.
- Follow all instructions carefully.
- Answer all questions.
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- The use of calculators is **NOT** allowed.

Name: _____ ()

Class: Primary 6 ()

Booklet B

/ 25

Please sign and return the examination paper the next day. Any queries should be raised at the same time when returning paper.

- 18 The ratio of Shina's test marks to Kyle's test marks was 3 : 7. Shina scored 16 fewer marks than Kyle. How many marks did Kyle score?

$$7 - 3 = 4$$

$$4 \text{ units} = 16$$

$$1 \text{ unit} = 16 \div 4 = 4$$

$$7 \text{ units} = 4 \times 7$$

$$= 28 \text{ (ans)}$$

Ans: 28

- 19 Round 199.99 to 1 decimal place.

$$199.\overset{\downarrow}{9}9 \approx 200.0 \text{ (ans)}$$

Ans: 200.0

- 20 Mrs Pereira baked 400 tarts. 45% of the tarts she baked were egg tarts while the rest were chocolate tarts. How many chocolate tarts did Mrs Pereira bake?

$$100\% - 45\% = 55\%$$

$$\frac{55}{100} \times \frac{400}{1}$$

$$= 55 \times 4$$

$$= 220 \text{ (ans)}$$

OR

$$\frac{45}{100} \times \frac{400}{1} = 45 \times 4 = 180$$

$$400 - 180 = 220 \text{ (ans)}$$

Ans: 220

Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

- 21 75% of a number is 36. What is the number?

$$\begin{array}{l} \div 3 \downarrow \\ 75\% \rightarrow 36 \\ 25\% \rightarrow 36 \div 3 \\ = 12 \\ \div 4 \downarrow \\ 100\% \rightarrow 12 \times 4 \\ = 48 \text{ (ans)} \end{array} \quad \text{or} \quad \begin{array}{l} 75\% = \frac{3}{4} \\ \frac{3}{4} \rightarrow 36 \\ \frac{1}{4} \rightarrow 36 \div 3 \\ = 12 \\ \frac{4}{4} \rightarrow 12 \times 4 \\ = 48 \text{ (ans)} \end{array}$$

Ans: 48

- 22 Derinda had 25 m of ribbon. She used it to make as many flowers as possible. She used $\frac{2}{3}$ m of ribbon to make each flower. How many metres of the ribbon were left?

$$\begin{array}{r} 37 \\ 2 \overline{) 75} \\ - 6 \\ \hline 15 \\ - 14 \\ \hline 1 \end{array}$$

$$25 \div \frac{2}{3} = \frac{25}{1} \times \frac{3}{2} = \frac{75}{2} = 37\frac{1}{2}$$

$$\frac{1}{2} \times \frac{2}{3} = \frac{1}{3} \text{ m (ans)}$$

Ans: $\frac{1}{3}$ m

- 25 Clarence, Amir and Jun Wei received some stickers. The ratio of the number of stickers that Clarence received to the number of stickers Amir received was 4:9. The ratio of the number of stickers Jun Wei received to the number of stickers Amir received was 4:3. Clarence received 24 stickers. How many stickers did Jun Wei receive?

$$\begin{array}{l} \downarrow \quad \quad \quad \downarrow \\ \text{Clarence : Amir} \quad \quad \text{Jun Wei : Amir} \\ 4 : 9 \quad \quad \quad 4 : 3 \\ \hline 12 : 9 \end{array}$$

$$4 \text{ units} = 24$$

$$1 \text{ unit} = 24 \div 4 = 6$$

$$12 \text{ units} = 6 \times 12$$

$$= 72 \text{ (ans)} \quad \text{Ans: } \underline{72}$$

- 26 The ratio of the number of sweets Rachel had to the number of sweets Euodia had was 2:3 at first. After Rachel bought 8 more sweets, the ratio of the number of sweets Rachel had to the number of sweets Euodia had became 5:6. How many sweets did Euodia have?

Euodia constant

$$\begin{array}{l} \text{At first,} \quad \quad \quad \text{End,} \\ \text{Rachel : Euodia} \quad \quad \text{Rachel : Euodia} \\ 2 : 3 \quad \quad \quad 5 : 6 \\ \hline 4 : 6 \end{array}$$

$$5 - 4 = 1$$

$$1 \text{ unit} = 8$$

$$6 \text{ units} = 8 \times 6$$

$$= 48 \text{ (ans)} \quad \text{Ans: } \underline{48}$$

- 23 Brenda had 6 l of orange juice. She drank $\frac{1}{2}$ of it in the morning and gave $\frac{1}{4}$ l of it to her brother. How much orange juice did she have left in the end?

$$\begin{array}{l} \text{morning} \rightarrow \frac{1}{2} \times \frac{6}{1} \\ = 3 \text{ l} \\ \text{Left} \rightarrow 6 - 3 - \frac{1}{4} \\ = 3 - \frac{1}{4} \\ = 2\frac{3}{4} \text{ l (ans)} \end{array}$$

Ans: $2\frac{3}{4}$ l

- 24 In a camp, the number of children is $\frac{3}{8}$ of the number of adults. $\frac{2}{9}$ of the children are boys and there is an equal number of men and women. What is the ratio of the number of girls to the number of women?

$$\begin{array}{l} \downarrow \quad \quad \quad \downarrow \\ \text{children : Adult} \quad \quad \text{boys : girls : children} \\ 3 : 8 \quad \quad \quad 2 : 7 : 9 \\ \hline 9 : 24 \end{array}$$

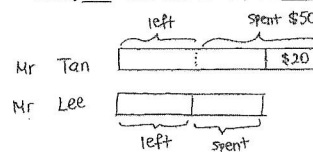
$$24 \div 2 = 12$$

$$\text{girls : women}$$

$$7 : 12 \text{ (ans)}$$

Ans: 7:12

- 27 Mr Tan had \$20 more than Mr Lee at first. After Mr Tan spent \$50 and Mr Lee spent half of his money, both of them had the same amount of money left. How much money did Mr Lee have at first?



$$1 \text{ unit} = \$50 - \$20 = \$30$$

$$2 \text{ units} = \$30 \times 2 = \$60 \text{ (ans)}$$

Ans: \$ 60

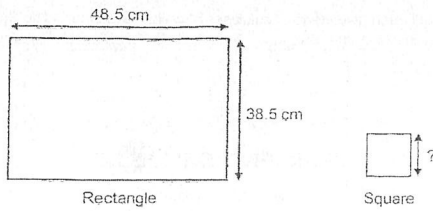
- 28 Diane wanted to train for a marathon. She started by running 1.6 km in the first week. She increased her distance by 1.2 km every week from the previous week. Find the total distance that she ran in the first 5 weeks.

$$\begin{array}{l} 1\text{st} \quad 1.6 \\ 2\text{nd} \quad 1.6 + 1.2 \\ 3\text{rd} \quad 1.6 + 1.2 + 1.2 \\ 4\text{th} \quad 1.6 + 1.2 + 1.2 + 1.2 \\ 5\text{th} \quad 1.6 + 1.2 + 1.2 + 1.2 + 1.2 \end{array} \quad \left. \begin{array}{l} \\ \\ \\ \\ \end{array} \right\} ?$$

$$\begin{array}{l} 1.6 \times 5 = 8 \\ 1.2 \times 10 = 12 \\ 8 + 12 = 20 \text{ (ans)} \end{array}$$

Ans: 20 km

- 29 A wire 210 cm long was cut into 2 pieces and bent to form a rectangle and a square. The length of the rectangle is 48.5 cm and its breadth is 38.5 cm. Find the length of one side of the square.



$$\begin{array}{r} 48.5 \\ + 38.5 \\ \hline 87.0 \end{array}$$

$$\begin{aligned} \text{Perimeter of rectangle} &= (48.5 + 38.5) \times 2 \\ &= 87 \times 2 \\ &= 174 \end{aligned}$$

$$210 - 174 = 36$$

$$36 \div 4 = 9 \text{ cm (ans)}$$

Ans: 9 cm

- 30 The table below shows the number of toys collected by Sunshine Centre in Year 2021 and Year 2022. Part of the table is covered by an ink blot. The number of soft toys collected and the total number of toys collected were both three-digit numbers.

Type of Toys	Year 2021	Year 2022
Wooden Toys	121	80
Electronic Toys	65	74
Soft Toys	18	200
Total number of toys	3	354

Each of the statements is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) to indicate your answer.

Statement	True	False	Not possible to tell
In Year 2021, more than 50% of the toys collected were soft toys.			✓
In Year 2021, 20% of the toys collected were electronic toys.		✓	
In Year 2022, the number of wooden toys collected was 40% of the number of soft toys collected.	✓		

$$121 + 65 = 186$$

$$\begin{aligned} 20\% &\rightarrow 65 \\ 10\% &\rightarrow 65 \div 2 \\ &= 32.5 \\ 100\% &\rightarrow 32.5 \times 10 \\ &= 325 \end{aligned}$$

$$121 + 65 + 180$$

$$= 186 + 180$$

$$= 366$$

Total toys in 2021 is at least 366

$$\begin{aligned} \frac{80}{200} &= \frac{40}{100} \\ &= 40\% \end{aligned}$$

End of Paper

Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

- 1 Jasper ran $6\frac{1}{10}$ km. Irfan ran $2\frac{7}{16}$ km more than Jasper. How far did they run altogether?

$$\begin{aligned} \text{Irfan} &\rightarrow 2\frac{7}{16} + 6\frac{1}{10} \\ &= 8\frac{43}{80} \end{aligned}$$

$$8\frac{43}{80} + 6\frac{1}{10} = 14\frac{51}{80} \text{ (ans)}$$

Ans: $14\frac{51}{80}$ km

- 2 The mass of each sack of rice is $4\frac{1}{5}$ kg. Find the total mass of 45 such sacks of rice.

$$4\frac{1}{5} \times 45 = 189 \text{ (ans)}$$

Ans: 189 kg

- 3 Joy had a meal that cost \$32.50 before GST at a restaurant. What was the cost of her meal after adding 8% GST?

$$100\% + 8\% = 108\%$$

$$\frac{108}{100} \times \$32.50 = \$35.10 \text{ (ans)}$$

Ans: \$ 35.10



NANYANG PRIMARY SCHOOL
TERM 1 WEIGHTED ASSESSMENT
2023

PRIMARY 6
MATHEMATICS
PAPER 2

Duration: 1 hour 30 minutes

INSTRUCTIONS TO PUPILS

- Do not turn over this page until you are told to do so.
- Follow all instructions carefully.
- Answer all questions.
- Write your answers in this booklet.
- The use of an approved calculator is allowed.

Name: _____ ()

Class: Primary 6 ()

Parent's Signature: _____

Booklet A	/ 20
Booklet B	/ 25
Paper 2	/ 55
Total	/ 100

Please sign and return the examination paper the next day. Any queries should be raised at the same time when returning paper.

- 4 Danny's scores for 5 games are shown in the table below.

Game	1 st	2 nd	3 rd	4 th	5 th
Score	8	0	7	16	9

Find his average score.

$$\frac{8+0+7+16+9}{5} = \frac{40}{5}$$

$$= 8 \text{ (ans)}$$

Ans: 8

- 5 Siti has the exact amount of money to buy 84 bottled drinks or 126 canned drinks. She has already spent some of the money to buy 39 canned drinks and 42 bottled drinks. How many more bottled drinks can she buy with the remaining money?

84 bottled \rightarrow 126 canned

1 bottled $\rightarrow \frac{126}{84}$ canned

$$= 1.5$$

$$39 \div 1.5 = 26$$

26 bottled \rightarrow 39 canned

$$84 - 26 = 42 = 16 \text{ (ans)}$$

Ans: 16

2

- 7 Mr Mohammad took a taxi from home to his office. His taxi fare was based on the charges shown below.

First 1 kilometre or less	\$4.30
Every additional 400 m or less	\$0.24
Every 45 seconds of waiting or less	\$0.24

The taxi stopped once at a traffic light and travelled a total distance of 7 km to reach his office. Mr Mohammad paid \$9.10. What was the longest possible duration the taxi stopped at the traffic light?

$$7 - 1 = 6$$

$$6 \text{ km} = 6000 \text{ m}$$

$$6000 \div 400 = 15$$

$$15 \times \$0.24 = \$3.60$$

$$\$3.60 + \$4.30 = \$7.90$$

$$\$9.10 - \$7.90 = \$1.20$$

$$\$1.20 \div \$0.24 = 5$$

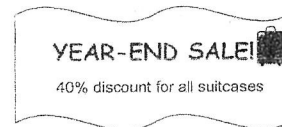
$$5 \times 45 = 225 \text{ s (ans)}$$

Ans: 225 s [3]

4

For questions 6 to 17, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question. (45 marks)

- 6 Miss Wong bought two identical suitcases at a year-end sale. The two suitcases cost \$174 after discount. Find the price of one such suitcase before discount.



$$1 \text{ suitcase after discount} \rightarrow \$174 \div 2$$

$$= \$87$$

$$100\% - 40\% = 60\%$$

$$\div 60\% \rightarrow \$87$$

$$\div 10\% \rightarrow \$87 \div 6$$

$$= \$14.50$$

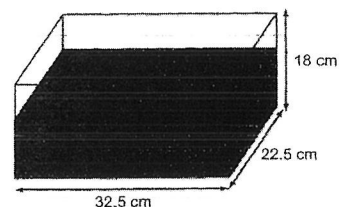
$$\times 100\% \rightarrow \$14.50 \times 10$$

$$= \$145 \text{ (ans)}$$

Ans: \$145 [3]

3

- 8 A rectangular tank measuring 32.5 cm by 22.5 cm by 18 cm was $\frac{5}{9}$ -filled with water as shown below. When Kamala poured 7 litres of water into the tank, some water overflowed. Find the volume of water that overflowed. Give your answer in litres.



$$\text{Volume of tank} = 32.5 \times 22.5 \times 18$$

$$= 13162.5$$

$$1 - \frac{5}{9} = \frac{4}{9}$$

$$\frac{4}{9} \times 13162.5 = 5850$$

$$7000 - 5850 = 1150$$

$$1150 \text{ cm}^3 = 1.15 \text{ l (ans)}$$

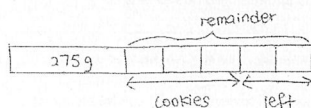
$$7 \text{ l} = 7000 \text{ cm}^3$$

Ans: 1.15 l [3]

5

6

9. Anant had some sugar at first. He used 275 g of sugar to bake some muffins and $\frac{3}{5}$ of the remaining sugar to bake some cookies. In the end, he had $\frac{1}{8}$ of the sugar left. How much sugar did he have at first?



$$\frac{1}{8} \text{ of sugar} \rightarrow 2 \text{ units}$$

$$\frac{3}{8} \text{ of sugar} \rightarrow 2 \times 8 = 16 \text{ units}$$

$$16 - 5 = 11$$

$$11 \text{ units} = 275$$

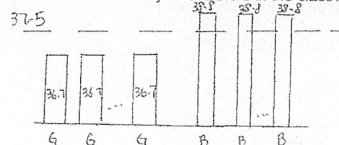
$$1 \text{ unit} = 275 \div 11 = 25$$

$$16 \text{ units} = 25 \times 16 = 400 \text{ g (ans)}$$

Ans: 400 g [3]

6

10. In a class of 42 children, the average mass of the children was 37.5 kg. The average mass of the girls in the class was 36.7 kg. The average mass of the boys in the class was 38.8 kg. How many more girls than boys were there in the class?



$$37.5 - 36.7 = 0.8$$

↑
need to top up
0.8 kg per girl

$$38.8 - 37.5 = 1.3$$

↑
need to take
away 1.3 kg
per boy

$$13 + 8 = 21$$

$$42 \div 21 = 2$$

$$13 \times 2 = 26 \rightarrow \text{number of girls}$$

$$8 \times 2 = 16 \rightarrow \text{number of boys}$$

$$26 - 16 = 10 \text{ (ans)}$$

OR

Supposition method

$$42 \times 37.5 = 1575$$

Suppose all 42 are girls

$$42 \times 36.7 = 1541.4$$

$$1575 - 1541.4 = 33.6$$

$$38.8 - 36.7 = 2.10$$

$$33.6 \div 2.10 = 16 \rightarrow \text{boys}$$

$$42 - 16 = 26 \rightarrow \text{girls}$$

$$26 - 16 = 10 \text{ (ans)}$$

Ans: 10 [3]

7

11. A group of children is put into 2 halls, hall A and hall B. The ratio of the number of children in hall A to the number of children in hall B is 3 : 8. In hall A, the ratio of the number of boys to the number of girls is 5 : 2. There are 18 girls in hall A. Find the total number of children in both halls.

In A,

$$A : B$$

$$3 : 8$$

$$21 : 56$$

$$\text{Boys : Girls : total}$$

$$5 : 2 : 7$$

$$15 : 6 : 21$$

$$6 \text{ units} = 18$$

$$1 \text{ unit} = 18 \div 6 = 3$$

$$21 + 56 = 77$$

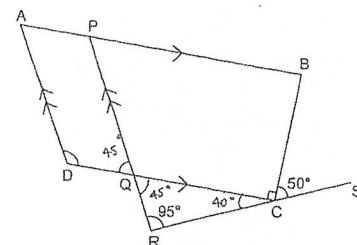
$$77 \text{ units} = 3 \times 77$$

$$= 231 \text{ (ans)}$$

Ans: 231 [3]

8

12. In the figure below, ABCD is a trapezium. APB, DQC, RCS and PQR are straight lines. APB is parallel to DQC and AD is parallel to PQR. $\angle BCS = 50^\circ$, $\angle BCQ = 90^\circ$ and $\angle QRC = 95^\circ$.



(a) Find $\angle DQP$.

$$\angle RCQ = 180^\circ - 90^\circ - 50^\circ = 40^\circ$$

$$\angle RQC = 180^\circ - 95^\circ - 40^\circ = 45^\circ \text{ (ans)}$$

$$= \angle DQP$$

Ans: (a) 45 [2]

(b) Find $\angle ADQ$.

$$\angle ADQ = 180^\circ - 45^\circ = 135^\circ \text{ (ans)}$$

Ans: (b) 135 [2]

9

- 13 Ashraf had some money at first. He spent 15% of it on food and \$810 on a new laptop. He then gave 20% of the remainder to his brother. In the end, he had \$304 left.

(a) How much money did Ashraf give to his brother?

$$100\% - 15\% = 85\%$$

$$85\% \text{ of remainder} \rightarrow \$304$$

$$\div 4 \quad 20\% \text{ of remainder} \rightarrow \$304 \div 4$$

$$= \$76 \text{ (ans)}$$

Ans: (a) \$76 [2]

(b) How much money did Ashraf have at first?

$$\text{remainder} \rightarrow \$76 \times 5$$

$$= \$380$$

$$100\% - 15\% = 85\%$$

$$85\% \rightarrow \$380 \div 85$$

$$= \$1190$$

$$1\% \rightarrow \$1190 \div 85$$

$$= \$14$$

$$100\% \rightarrow \$14 \times 100$$

$$= \$1400 \text{ (ans)}$$

Ans: (b) \$1400 [3]

10

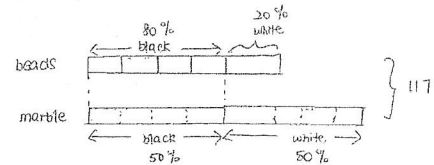
- 14 Susan had 117 beads and marbles altogether. The beads and marbles were either white or black. 20% of the beads and 50% of the marbles were white. There were as many black beads as black marbles.

(a) In the statement below, circle the phrase 'more than', 'fewer than' or 'the same as' that correctly describes the comparison between the number of beads and marbles Susan had.

The number of beads Susan had was
(more than / fewer than / the same as)
the number of marbles she had.

[1]

(b) How many beads did Susan have?



$$80\% = \frac{4}{5}$$

$$50\% = \frac{1}{2}$$

$$13 \text{ units} = 117$$

$$1 \text{ unit} = 117 \div 13$$

$$= 9$$

$$5 \text{ units} = 9 \times 5$$

$$= 45 \text{ (ans)}$$

$$\frac{4}{5} B \rightarrow \frac{1}{2} M$$

$$\frac{4}{5} B \rightarrow \frac{4}{8} M$$

$$5 + 8 = 13$$

$$13 \text{ units} = 117$$

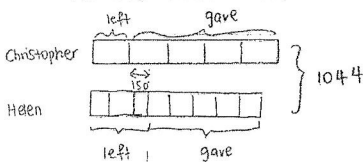
$$5 \text{ units} = \frac{117}{13} \times 5$$

$$= 45 \text{ (ans)}$$

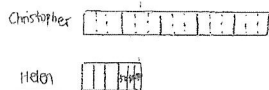
Ans: (b) 45 [3]

11

- 15 Christopher and Helen had 1044 erasers altogether at first. Christopher gave $\frac{4}{6}$ of his erasers to his brother. Helen gave $\frac{5}{8}$ of her erasers to her sister. In the end, Helen had 150 erasers more than Christopher. How many erasers did Christopher have at first?



make them of the same unit



$$150 \div 3 = 50$$

$$3 \times 5 = 15 \text{ units} \rightarrow \text{Christopher}$$

$$50 \times 8 = 400$$

$$8 \text{ units} \div 400 \rightarrow \text{Helen}$$

$$15 + 8 = 23$$

$$23 \text{ units} \div 400 \rightarrow 1044$$

$$23 \text{ units} = 644$$

$$1 \text{ unit} = 644 \div 23$$

$$= 28$$

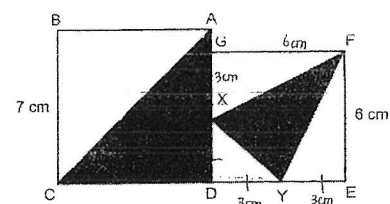
$$15 \text{ units} = 28 \times 15$$

$$= 420 \text{ (ans)}$$

Ans: 420 [4]

12

- 16 The figure below is made up of 2 squares, ABCD and DEFG. X is a point on GD and Y is a point on DE. BC = 7 cm, FE = 6 cm and XD = DY = YE.



(a) Find the total area of the shaded parts.

$$6 \div 2 = 3$$

$$\text{Area of } \triangle ACD = \frac{1}{2} \times 7 \times 7$$

$$= 24.5$$

$$\text{Area of } \triangle XFY = \text{Area of DEFG} - \text{Area } \triangle DXY - \text{Area } \triangle YEF - \text{Area } \triangle XDF$$

$$= (6 \times 6) - (\frac{1}{2} \times 3 \times 3) - (\frac{1}{2} \times 3 \times 6) - (\frac{1}{2} \times 3 \times 6)$$

$$= 36 - 4.5 - 9 - 9$$

$$= 13.5$$

$$24.5 + 13.5 = 38 \text{ cm}^2 \text{ (ans)}$$

(b) What fraction of the figure is unshaded?

$$\text{Area of figure} = (7 \times 7) + (6 \times 6)$$

$$= 49 + 36$$

$$= 85$$

$$\text{unshaded} \rightarrow 85 - 38$$

$$= 47$$

$$\frac{\text{unshaded}}{\text{total}} \rightarrow \frac{47}{85} \text{ (ans)}$$

Ans: (b) $\frac{47}{85}$ [2]

13

8

- 17 The table below shows the number of clips in different coloured containers.

Colour of container	Number of clips in each container
White	30
Blue	50
Green	60

- (a) Gwen has a total of 10 white containers and green containers. What is the smallest possible difference between the total number of clips in Gwen's white containers and the total number of clips in her green containers?

Number of clips in green container is twice the number of clips in white container.

For every 2 white containers to 1 green container, the difference is zero.

$$2 + 1 = 3$$

$$10 \div 3 = 3 \text{ R } 1$$

$$3 \times 2 + 1 = 7$$

$$10 - 7 = 3$$

$$7 \times 30 = 210$$

$$3 \times 60 = 180$$

$$\text{Ans: (a) } \underline{30} \quad [2]$$

$$210 - 180 = 30 \text{ (ans)}$$

- (b) Clement has some white containers and some blue containers. The ratio of the total number of clips in Clement's white containers to the total number of clips in his blue containers is 3 : 2. Express the number of his blue containers as a fraction of the total number of his containers.

white clips : blue clips

$$3 : 2$$

$$150 : 100$$

$$150 \div 30 = 5 \rightarrow \text{white containers}$$

$$100 \div 50 = 2 \rightarrow \text{blue containers}$$

$$2 + 5 = 7$$

$$\frac{\text{blue}}{\text{total}} \rightarrow \frac{2}{7} \text{ (ans)} \quad \text{Ans: (b) } \underline{\frac{2}{7}} \quad [3]$$

End of Paper

9
END



**RAFFLES GIRLS' PRIMARY SCHOOL
WEIGHTED ASSESSMENT 1 2023
MATHEMATICS
PRIMARY 6**

Name: _____ ()

Form Class: P6 _____

Math Teacher: _____

Date: 28 February 2023

Duration: 50 minutes

Your Total Score (Out of 30 marks)	
Parent's Signature	

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer **ALL** questions and show all working clearly.
4. The use of calculator is allowed for this paper.

CHINESE UNIVERSITY OF HONG KONG
SCHOOL OF MANAGEMENT
DEPARTMENT OF MANAGEMENT
HONG KONG

7/10/2014
Page 1 of 1

Questions 1 and 2 carry 1 mark each and Questions 3 to 10 carry 2 marks each.
Show your working clearly and write your answers in the spaces provided.
For questions which require units, give your answers in the units stated.

[18 marks]

1. What is the missing number in the box?

$$3\,000\,000 + 10\,000 + \boxed{} + 8 = 3\,014\,008$$

Ans: _____ [1]

2. Use all the digits 4, 5, 6, 8 to form the greatest number between 5 000 and 6 000.

Ans: _____ [1]

3. How many halves are there in $5\frac{1}{2}$?

Ans: _____ [2]

4. Arrange these fractions from the smallest to the largest.

$$2\frac{1}{2}, \quad \frac{13}{5}, \quad 2\frac{3}{7}$$

Ans: _____, _____, _____ [2]
Smallest Largest

5. Mr Ravi bought some boxes of chocolates. Each box contained 12 chocolates. The total number of chocolates Mr Ravi bought was more than 50 but fewer than 100. Mr Ravi ate 7 chocolates and gave the rest equally to each of his 5 children. How many chocolates did each child get?

Ans: _____ [2]

6. Fill in the boxes with the correct mathematical symbols. Each symbol can only be used once.

$+$,	$-$,	\times	,	\div
-----	---	-----	---	----------	---	--------

$$56 \boxed{} 4 + 3 \boxed{} 8 = 38$$

[2]

7. Eva spent $\frac{1}{7}$ of her savings on a gift for her brother. Then, she spent $\frac{2}{3}$ of the remainder on a school bag. What fraction of her savings had she left?
Give your answer in the simplest form.

Ans: _____ [2]

8. Terry had 3 times as many \$2-notes as \$5-notes. He had \$385 altogether. How many \$5-notes did Terry have?

Ans: _____ [2]

9. Aminah had an equal number of sunflowers and roses. She gave away $\frac{3}{5}$ of the sunflowers and some roses. In the end, she was left with $\frac{1}{4}$ of the total number of flowers. What fraction of the roses did she give away?

Ans: _____ [2]

10. There are some pink, black and green beads in a container. $\frac{2}{5}$ of the beads are pink. There are more black beads than green beads.

Each of the statements below is either true, false or not possible to tell from the information given. For each statement, put a tick(✓) to indicate your answer.

Statement	True	False	Not possible to tell
(a) There are fewer green beads than pink beads.			
(b) If $\frac{1}{8}$ of the pink beads are used, there will be more black beads than pink beads left.			

[2]

For questions 11 to 13, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in the brackets [] at the end of each question or part-question. [12 marks]

11. Tim and Jerry were paid a total of \$8568 for selling tickets. Tim was paid \$5304 more than Jerry.

(a) How much was Tim paid for selling the tickets?

(b) Tim and Jerry were paid based on the number of tickets they sold. Tim sold 3 times as many tickets as Jerry. Tim was paid \$5 more than Jerry for selling each ticket. How many tickets did Tim sell?

Ans: (a) _____ [2]

(b) _____ [3]

12. Ruth needs 90 pieces of ribbons each of length $\frac{4}{5}$ m to decorate a room. Ribbon is sold in rolls of 10 m each.

- (a) What is the maximum number of pieces of ribbon she can get from a roll of 10 m?
- (b) What is the least number of rolls of ribbon that Ruth needs to buy?

Ans: (a) _____ [2]

(b) _____ [2]

13. Ahmad used sticks to form the following figures.



Figure 1

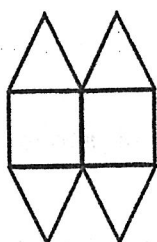


Figure 2

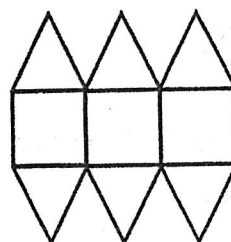


Figure 3

(a) The table shows the number of triangles and sticks for the first three figures.
Complete the table for Figure 4.

Figure Number	Number of triangles	Number of sticks
1	2	8
2	4	15
3	6	22
4	()	()

[1]

(b) A figure in the pattern has a total of 2507 sticks.
What is the Figure Number?

Ans: (b) Figure _____ [2]

END OF PAPER

YEAR : 2023
 LEVEL : PRIMARY 6
 SCHOOL : RAFFLES GIRLS' PRIMARY SCHOOL
 SUBJECT : MATHEMATICS
 TERM : WEIGHTED ASSESSMENT 1

WEIGHTED ASSESSMENT 1

Q1	$3\ 000\ 000 + 10\ 000 + 8 = 3\ 010\ 008$ $3\ 014\ 008 - 3\ 010\ 008 = 4000$	Q2	5864
Q3	$5\frac{1}{2} = \frac{11}{2}$ $\frac{11}{2} \div \frac{1}{2} = \frac{11}{2} \times \frac{2}{1} = \frac{11}{1}$ $= 11$	Q4	$2\frac{3}{7}, 2\frac{1}{2}, \frac{13}{5}$
Q5	1 box : 12 chocolate $12 \times 6 = 72$ $72 - 7 = 65$ $65 \div 5 = 13$	Q6	$56 \div 4 + 3 \times 8 = 38$
Q7	Total savings at first = $1u \times 7 = 7$ Left : 2u $\frac{\text{Left}}{\text{Total}} = \frac{2}{7}$	Q8	$\$2$ notes : $3 \times \$2 = 6u$ $\$5$ notes : $1u \times \$5 = 5u$ $6u + 5u = 11u$ $1u : 35$ (no. of $\$5$ notes)
Q9	Sunflower = $5u \times 2$ $= 10u$ Roses = $5u \times 2$ $= 10u$ $10u + 10u = 20u$ Sunflower = 4u Roses = 1u $5u - 4u = 1u$ (roses left) $10u - 1u = 9u$ (roses given away) Ans: $\frac{9}{10}$	Q10	(a) True (b) Not possible to tell
Q11	(a) $8568 - 5304 = 3264$ $3264 \div 2 = 1632$ $1632 + 5304 = 6936$ (b) 3 times Ticket : 6936 1 time Ticket : 2312 $2312 - 1632 = 680$ $680 \div 5 = 136$ $136 \times 3 = 408$	Q12	(a) $10 \div \frac{4}{5} = 12\frac{5}{4}$ (pieces) (b) $90 \div 12 = 7\frac{1}{2}$ $7 + 1 = 8$
Q13	(a) (8) (29) (b) Figure no. $\times 7 + 1 = 2507$ Figure no. = $2507 - 1$ $= 2506$ $2506 \div 7 = 358$		



Rosyth School
Term Assessment 2023 (Term 1)
MATHEMATICS
Primary 6
Paper 1

Name : _____ ()

Class : Pr 6 - _____

Date : 21st February 2023

Parent's Signature: _____

Total Time for Booklets A and B : 25 min

Booklet A

Instructions to Pupils:

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
5. Do not use correction fluid/tape or highlighters.
6. The use of a calculator is not allowed.

Questions	Maximum Mark	Marks Obtained
Q 1 – 5	5	

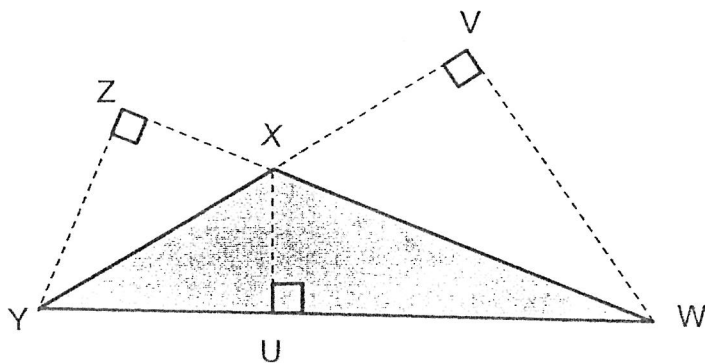
* This paper **consists of 5 printed pages** altogether (including the cover page).
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Questions 1 to 5 carry 1 mark each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and write your answer in the brackets provided.

All diagrams in this paper are not drawn to scale unless stated otherwise.

(5 marks)

1. In the figure, WX is the base of the triangle WXY. Which line represents its height?



- (1) UX
- (2) VW
- (3) XY
- (4) YZ

()

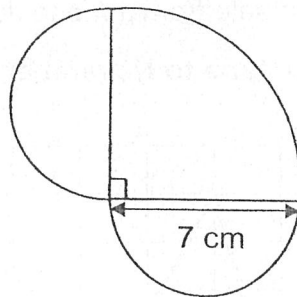
2. Kim has some red, blue and green beads. The ratio of the number of red beads to the number of blue beads is 1 : 2. The number of green beads to the total number of blue and red beads is 1 : 4. What is the ratio of the number of red beads to the number of blue beads to the number of green beads?

- (1) 1 : 2 : 1
- (2) 1 : 2 : 4
- (3) 4 : 8 : 3
- (4) 8 : 4 : 3

()

3. The figure below is made up of a quadrant and 2 identical semicircles.

Find the perimeter of the figure. (Take $\pi = \frac{22}{7}$)



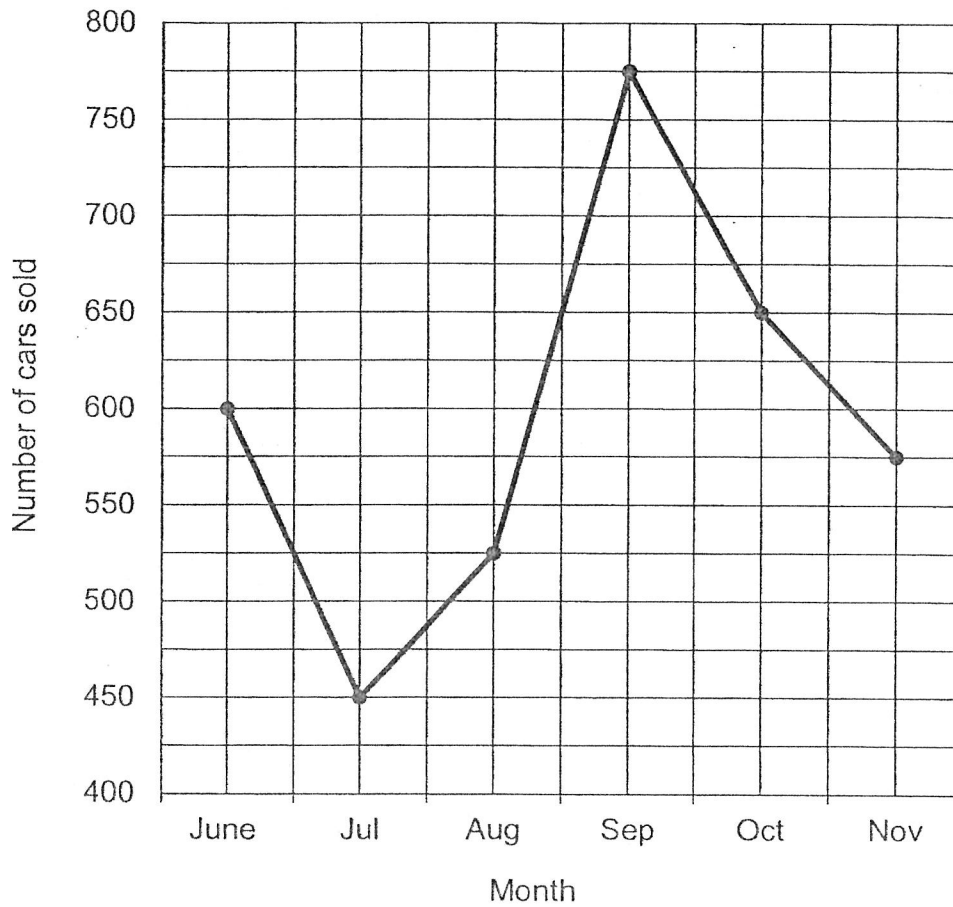
- (1) 27.5 cm
- (2) 33 cm
- (3) 44 cm
- (4) 49.5 cm

()

4. The line graph below shows the number of cars sold in the showroom from June to November.

What was the percentage decrease in sale from June to July?

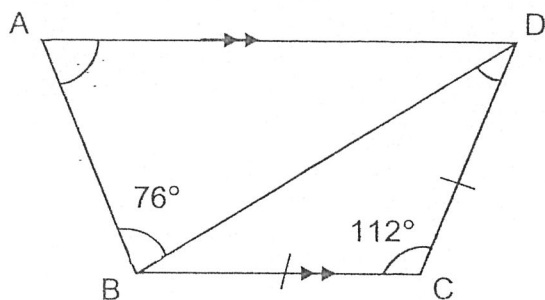
Number of cars sold from June to November



- (1) 25%
- (2) $33\frac{1}{3}\%$
- (3) 75%
- (4) 150%

()

5. In the figure below, ABCD is a trapezium. AD is parallel to BC and $BC = CD$. $\angle ABD = 76^\circ$ and $\angle BCD = 112^\circ$. Find $\angle BAD$.



- (1) 34°
- (2) 68°
- (3) 70°
- (4) 104°

()



Rosyth School
Term Assessment 2023 (Term 1)
MATHEMATICS
Primary 6
Paper 1

Name : _____ ()

Class : Pr 6 - _____

Date : 21st February 2023

Parent's Signature: _____

Total Time for Booklets A and B : 25 min

Booklet B

Instructions to Pupils:

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
5. Do not use correction fluid/tape or highlighters.
6. The use of a calculator is not allowed.

Questions	Maximum Mark	Marks Obtained
Q 6 – 14	15	

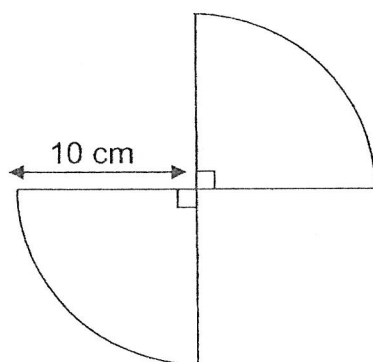
* This paper **consists of 6 printed pages** altogether (including the cover page).
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Questions 6 to 8 carry 1 mark each. Questions 9 to 14 carry 2 marks each. Show your workings clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

Do not write
in this space

All diagrams in this paper are not drawn to scale unless stated otherwise.
(15 marks)

6. The figure below is made up of 2 identical quadrants. Find the perimeter of the figure. ($\pi = 3.14$)



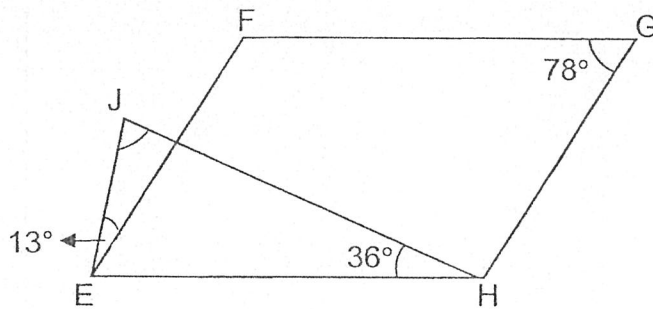
Ans: _____ cm

7. In a box, 25% of the keychains are from Thailand and 45% of the keychains are from Singapore. The remaining 45 keychains are from other countries. How many keychains are there in the box?

Ans: _____

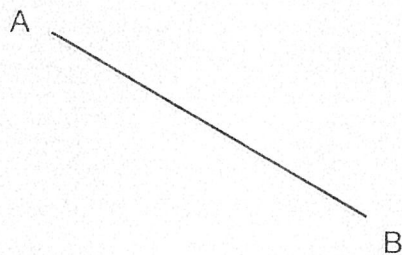
8. The figure below is made up of a parallelogram EFGH and a triangle EJH. $\angle FGH = 78^\circ$, $\angle JHE = 36^\circ$ and $\angle JEF = 13^\circ$. Find the value of $\angle EJH$.

Do not write
in this space



Ans: _____°

9. Draw and label the rhombus ABCD in the space provided below. The $\angle ABC$ in the rhombus is 65° . The line AB, which is 5 cm, has been drawn for you.



10. Jane and Patrick bought a box of badges. Jane took $\frac{7}{10}$ of the badges and Patrick took the rest. After Jane gave away 39 badges, Jane's number of badges left is $\frac{1}{6}$ of Patrick's number of badges. How many badges did Jane have in the end?

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in this space

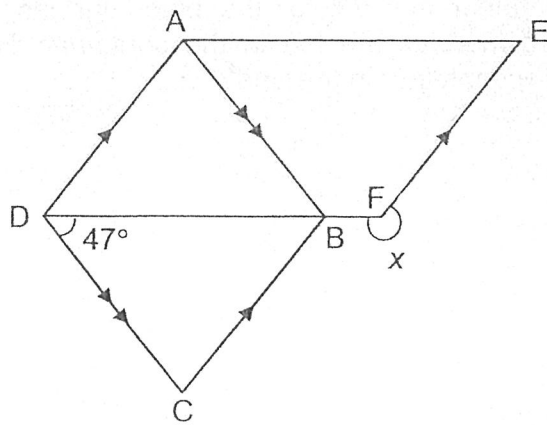
Ans: _____

11. Kylie received a fixed sum of salary monthly. In January, she saved 20% of her salary. Her savings in February increased by 40%. Her total savings for the 2 months was \$480. What was the sum of salary given to her monthly?

Ans: \$ _____

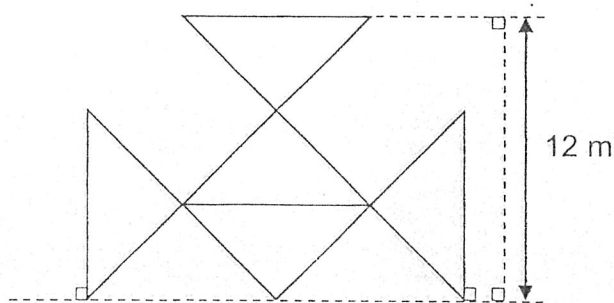
12. In the figure below, ABCD is a rhombus and AEFD is a parallelogram.
 $\angle CDB = 47^\circ$. Find $\angle x$.

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in this space



Ans: _____°

13. Five identical isosceles triangles are joined as shown in the figure below.
 Find the area of one such triangle.



Ans: _____ m²

14. There is a total of 400 red and blue marbles in a container. After 64 red marbles are added into the container and 7% of the blue marbles are removed from the container, 443 marbles are left in the container. How many blue marbles are there in the container in the end?

Do not write
in this space

Ans: _____



End of paper
Have you checked your work?



Rosyth School
Term Assessment 2023 (Term 1)
MATHEMATICS
Primary 6

Name: _____ ()

Class: Pr 6 - _____

Date: 21st February 2023

Parent's Signature: _____

Time: 35 min

PAPER 2

Instructions to Pupils:

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
5. Do not use correction fluid/tape or highlighters.
6. The use of an approved calculator is allowed.

Questions	Maximum Mark	Marks Obtained
Q 15 to 20	20	

Section	Maximum Mark	Marks Obtained
Paper 1	20	
Paper 2	20	
Total	40	

* This booklet consists of **7 printed pages** altogether. (including this cover page).

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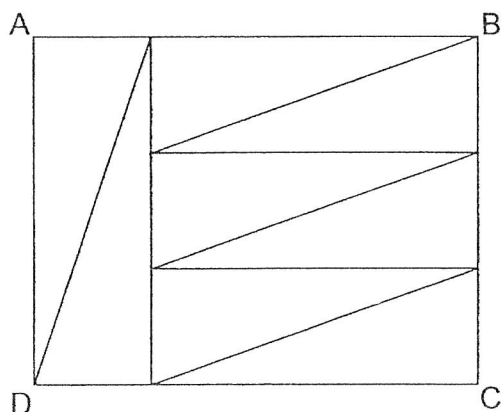
For Questions 15 to 20, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question. For questions which require units, give your answers in the units stated.

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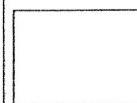
All diagrams in this paper are not drawn to scale unless stated otherwise.
(20 marks)

15. In the figure below, ABCD is a rectangle made up of 8 identical right-angled triangles.

The perimeter of rectangle ABCD is 364cm, what is the area of rectangle ABCD?



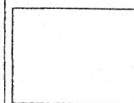
Ans: _____ cm² [2]



16. The pupils in a class are divided equally into Team A and Team B.
The ratio of the number of girls to the number of boys in Team A is 4 : 3
The ratio of the number of girls to the number of boys in Team B is 3 : 1.
What is the ratio of the number of girls to the number of boys in the class?

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Ans: _____ [3]



17. A rectangular piece of paper, as shown in Figure 1, is folded along the dotted line such that the total area of triangles A, B and C, as shown in Figure 2 is $\frac{5}{9}$ the area of the rectangular piece of paper.

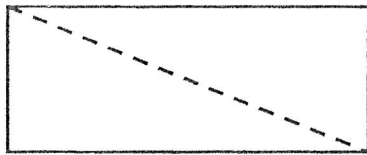


Figure 1

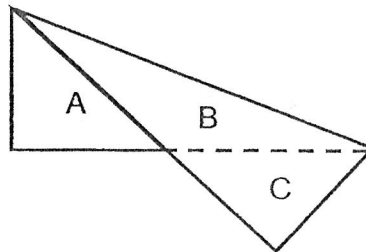


Figure 2

The area of triangle B is 24 cm^2 , find the area of the rectangular piece of paper.

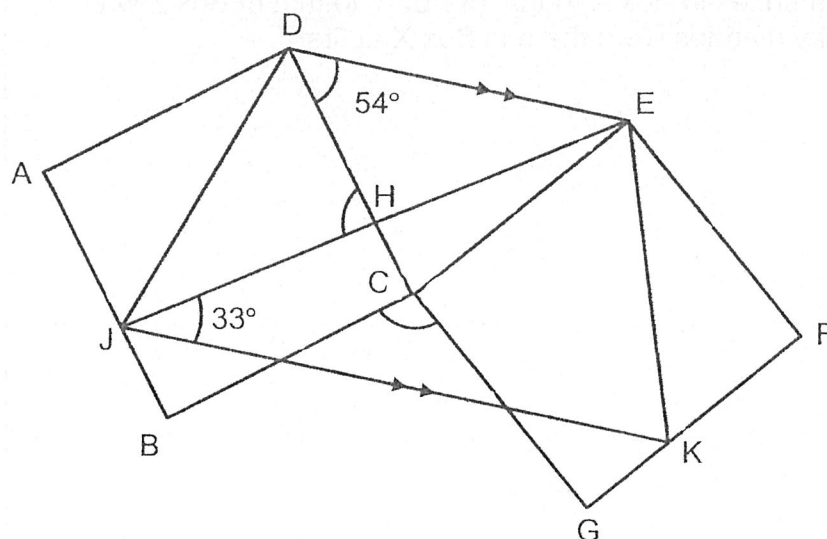
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Ans: _____ [3]



18. The figure shown below is made up of two identical squares, ABCD and CEFG, a trapezium DEKJ and a triangle DEJ. The line DE is parallel to the line JK. $\angle CDE = 54^\circ$ and $\angle EJK = 33^\circ$

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- (a) Find $\angle BCG$.

Ans: _____ [2]

- (b) Find $\angle DHJ$

Ans: _____ [2]

19. Three boxes, X, Y, and Z contained a total of 848 marbles at first. 120 marbles were removed from Box X. The number of marbles in Box Y was doubled. $\frac{1}{5}$ of the marbles in Box Z were given away. In the end, the ratio of the number of marbles in Box X to that of Box Y to that of Box Z was 1 : 2 : 1. How many marbles were there in Box X at first?

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Ans: _____ [4]

20. Below are the prices of facial masks from three different stores.

Do not write
in this space

Store A	Store B	Store C
Original price: \$4.20 for 1 mask	Original price: \$25.90 for 1 pack of 10	Original price: \$3.80 for 1 mask
Promotion: 50% discount for all masks!	Promotion: For each pack bought, buy a 2 nd pack at 40% discount!	Promotion: Buy 5 get 4 free!

Of the three stores, which store should Mrs Chong buy from if she wants to spend the least amount of money for 100 masks? How much would she need to pay?

Ans: Store _____ [1]

Ans: _____ [3]

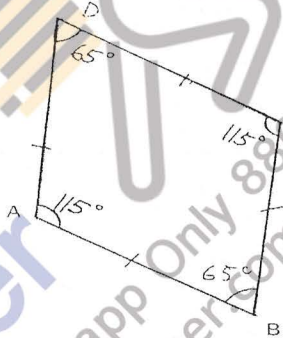
End of paper
Have you checked your work?

YEAR : 2023
 LEVEL : PRIMARY 6
 SCHOOL : ROYSTH SCHOOL
 SUBJECT : MATHEMATICS
 TERM : TERM ASSESSMENT (TERM 1)

TERM ASSESSMENT (PAPER 1) BOOKLET A

Q1	4	Q2	3	Q3	2	Q4	1	Q5	3
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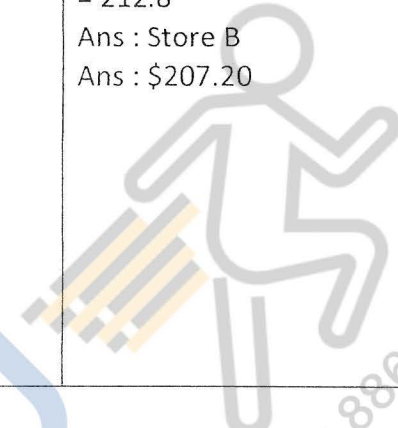
BOOKLET B

Q6	$\frac{1}{4} \times 2 \times 20 \times 3.14 = 31.4$ $31.4 + 10 + 10 + 10 + 10 = 71.4\text{cm}$			Q7	$45 + 25 = 70$ $45 \div 30 = 1.5$ $1.5 \times 100 = 150$		
Q8	$JEH = 13 + 78 = 91$ $EJH = 180 - 36 - 91 = 53^\circ$			Q9			
Q10	J : P 7 : 3 14 : 6 $14 - 1 = 13$ $1u : 39 \div 13 = 3$	J : P 1 : 6		Q11	$\frac{40}{100} \times 20 = 8$ Jan + Feb : $20 + 20 + 8 = 48$ 48% : 480 1% : 10 100% : 1000		
Q12	$180 - 47 = 133$ $360 - 133 = 227^\circ$			Q13	$12 \div 3 = 4$ $4 \times 2 = 8$ $\frac{1}{2} \times 8 \times 4 = 16\text{m}^2$		
Q14	New Total : $400 + 64 = 464$ $7\% : 464 - 443 = 21$ $1\%B : 21 \div 7 = 3$ $93\%B : 3 \times 93 = 279$						

PAPER 2

Q15	$4 + 3 + 4 + 3 = 14$ $364 \div 14 = 26$ $26 \times 3 = 78$ $26 \times 4 = 104$ $78 \times 104 = 8112\text{cm}^2$			Q16	Team A G : B : Total 4 : 3 : 7 16 : 12 : 28 $16 + 21 = 37$ $12 + 7 = 19$ Ans : 37 : 19	Team B G : B : Total 3 : 1 : 4 21 : 7 : 28
-----	--	--	--	-----	--	---

Q17	$B : \frac{4}{9}$ $24 \div 4 = 6$ $6 \times 9 = 54\text{cm}^2$		Q18	(a) DCE : $180 - 54 - 54 = 72$ BCG : $360 - 90 - 90 - 72 = 108^\circ$ (b) DEJ : 33° DHJ : $54 + 33 = 87^\circ$
Q19	After: $X : Y : Z$ $1 : 2 : 1$ $4 : 8 : 4$	Before: $X : Y : Z$ $4u+120 : 4u : 5u$	Q20	1 set of 20 mask : $15.54 + 25.9 = 41.44$ 5 sets : $41.44 \times 5 = 207.2$ 1 group : $3.8 \times 5 = 19$ 11 group of 9 + 1 mask : $19 \times 11 + 3.8 = 212.8$ Ans : Store B Ans : \$207.20


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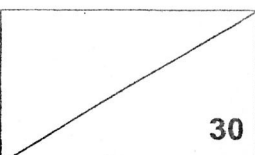
END

Pg 2

Name: _____ ()

Class: Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)**Primary 6 Mathematics****2023 Weighted Assessment****Term 1 Week 9**

Total Marks	
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Parent's/Guardian's Signature
Time : 50 minutes**INSTRUCTIONS TO CANDIDATES**

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

The use of an approved calculator is expected, where appropriate.

This booklet consists of 9 printed pages.

Questions 1 and 2 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (4 marks)

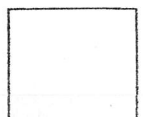
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1. Mr Lee has \$6000 in his bank account. The bank gives 0.3% interest at the end of each year. He does not withdraw any of his savings. What is the total amount of money he will have in the bank at the end of one year?

Ans : \$ _____

2. A group of 4 girls and 3 boys took a quiz. The average score of the girls was 28. The average score of the boys was 27. Find the total score of all the children.

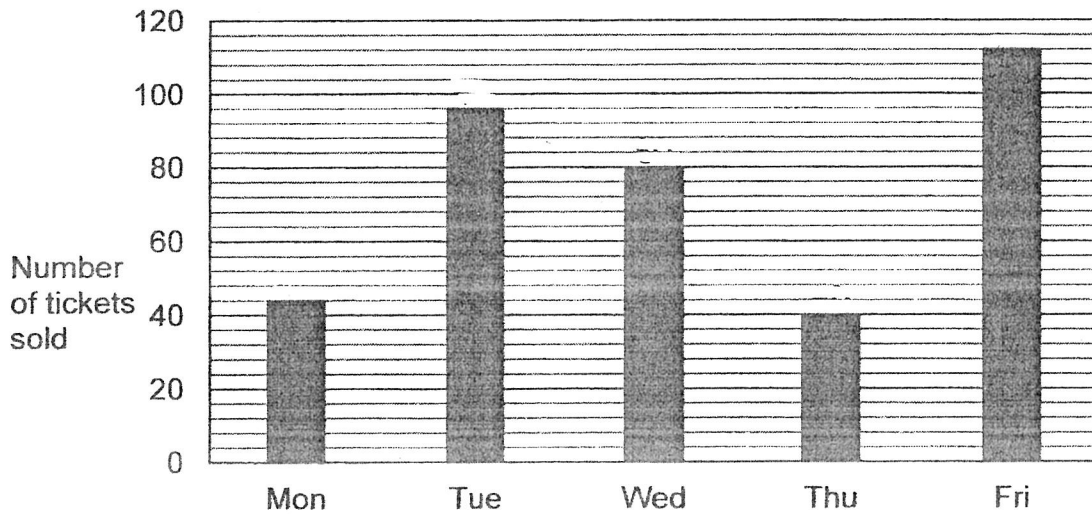
Ans : _____



For questions 3 to 9, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in the brackets () at the end of each question or part-question. (26 marks)

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3. The graph below shows the number of tickets sold for a basketball match from Monday to Friday.

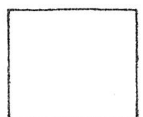


- (a) What was the total number of tickets sold from Monday to Wednesday?

Ans : (a) _____ [1]

- (b) The usual price of a ticket was \$70. On Friday, tickets were sold at a 5% discount. How much money was collected from the sale of tickets on Friday?

Ans : (b) _____ [2]



4. In a library, $\frac{3}{4}$ of the number of fiction books is equal to $\frac{1}{6}$ of the number of non-fiction books. There are 5940 fiction and non-fiction books altogether. How many fiction books are there in the library?

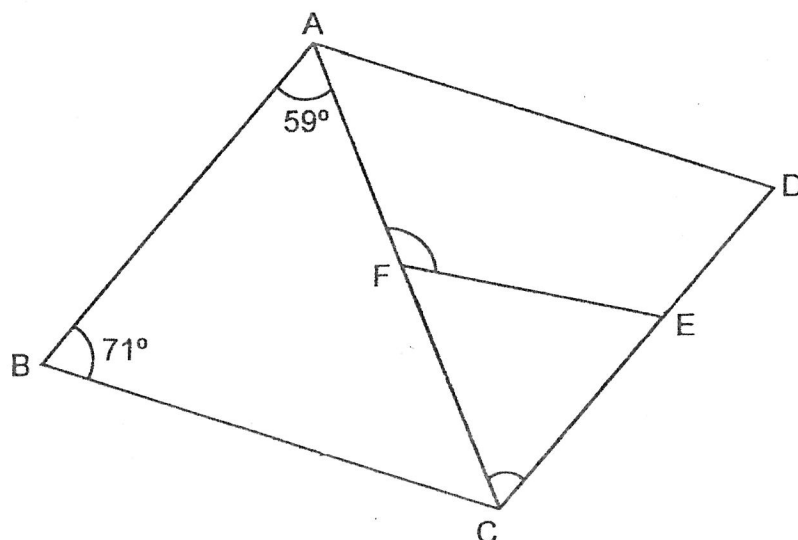
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Ans : _____ [3]



5. ABCD is a parallelogram. CFE is an isosceles triangle with $CF = EF$. AFC is a straight line.

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- (a) Find $\angle AFE$.

Ans : (a) _____ [2]

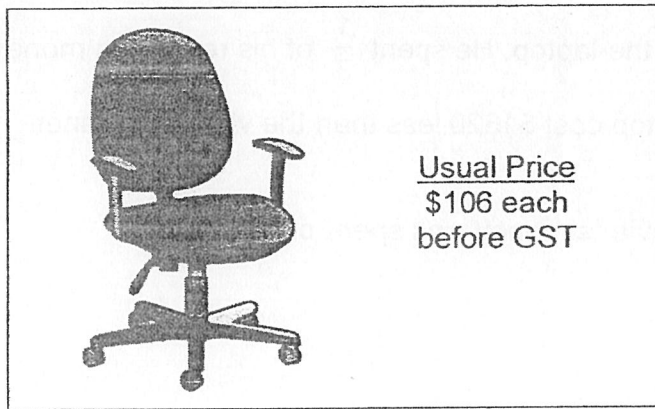
- (b) Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (\checkmark) in the correct column.

Statement	True	False	Not possible to tell
AFED is a trapezium.			
$\angle ACD = \angle ADC$.			

[1]



6. At a furniture shop, office chairs are sold at the price shown.



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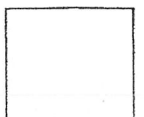
During a sale in October, the shop offered a 25% discount on the office chair.

- (a) What was the discount given for each office chair?

Ans : (a) _____ [1]

- (b) Karen had \$550. What was the greatest number of chairs she could buy during the sale in October?

Ans : (b) _____ [2]



7. Xavier spent $\frac{2}{7}$ of his money on a laptop and a refrigerator. The refrigerator cost 2 times as much as the laptop. He spent $\frac{1}{3}$ of his remaining money on a vacuum cleaner. The laptop cost \$1320 less than the vacuum cleaner.

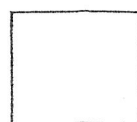
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- (a) What fraction of Xavier's money was spent on the laptop?

Ans : (a) _____ [1]

- (b) How much money did he have at first?

Ans : (b) _____ [3]



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8. Figure 1 shows a rectangular tile.

Figure 2 is formed using 5 such tiles. The perimeter of Figure 2 is 360 cm.

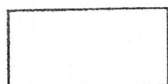


Figure 1

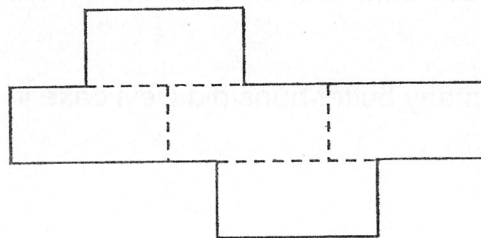


Figure 2

- (a) Find the perimeter of Figure 1.

Ans : (a) _____ [2]

- (b) The length of the rectangular tile was 3 times as long as its breadth.
Find the area of the rectangular tile.

Ans : (b) _____ [3]



9. Devi had 180 butter buns and two times as many kaya buns in the morning. In the afternoon, she baked some butter buns and sold some kaya buns. The number of kaya buns sold was 5 times of the number of butter buns baked. She had the same number of butter buns and kaya buns in the end.

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in this
space

- (a) How many butter buns did Devi bake in the afternoon?

Ans : (a) _____ [1]

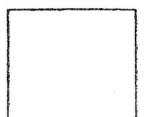
- (b) How many buns did Devi have altogether in the end?

Ans : (b) _____ [2]

- (c) The remaining buns were sold at \$2.20 each and 1 bun was given free for every 3 buns bought. Mr Poh wanted to get 13 buns. How much money did he need to pay in total?

Ans : (c) _____ [2]

THE END



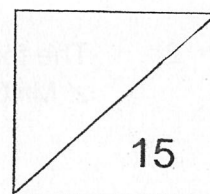
YEAR : 2023
 LEVEL : PRIMARY 6
 SCHOOL : CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)
 SUBJECT : MATHEMATICS
 TERM : 2023 WEIGHTED ASSESSMENT (TERM 1 WEEK 9)

WEIGHTED ASSESSMENT

Q1	$0.3\% = \frac{0.3}{100}$ $6000 \times \frac{0.3}{100} = 18$ $6000 + 18 = \$6018$	Q2	$28 \times 4 = 112$ $27 \times 3 = 81$ $112 + 87 = 193$
Q3	(a) $44 + 96 + 80 = 220$ (b) $70 \times \frac{5}{100} = 3.5$ $70 - 3.5 = 66.5$ $66.5 \times 112 = \$7448$	Q4	$\frac{1}{6} = \frac{3}{18}$ $18 + 4 = 22$ $5940 \div 22 = 270$ $270 \times 4 = 1080$
Q5	(a) $BAC = ACE = 59^\circ$ $59 + 59 = 118$ $180 - 118 = 62$ $180 - 62 = 118$ $AFE = 118^\circ$ (b) <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">False</div> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">False</div>	Q6	(a) $106 \times \frac{25}{100} = \26.50 (b) $106 - 26.5 = 79.5$ $550 \div 79.5 = 6R73$ Ans: 6
Q7	(a) $\frac{2}{7} = \frac{6}{21}$ $6 \div 3 = 2$ Ans: $\frac{2}{21}$ (b) $2 \times 2 = 4$ $21 - 6 = 15$ $5 - 2 = 3$ $1320 \div 3 = 440$ $440 \times 21 = \$9240$	Q8	(a) $1 + 1 = 2$ $4 \div 2 = 2$ $5 - 2 = 3$ $360 \div 3 = 120\text{cm}$ (b) $3 + 1 = 4$ $4 + 4 = 8$ $120 \div 8 = 15$ $15 \times 3 = 45$ $45 \times 15 = 675\text{cm}^2$
Q9	(a) $180 \times 2 = 360$ $360 - 180 = 180$ $5 + 1 = 6$ $180 \div 6 = 30$ (b) $180 + 30 = 210$ $210 + 210 = 420$ (c) $3 + 1 = 4$ $13 \div 4 = 3R1$ $3 \times 2.20 = 6.60$ $6.6 \times 3 = 19.8$ $19.8 + 2.2 = \$22$		

1
END

Red Swastika School
Primary 6 Mathematics Milestone Check (1)
Topic : Angles in Geometric Figures



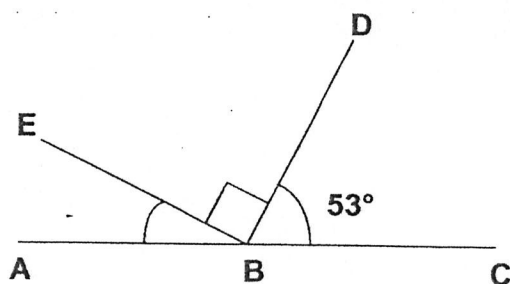
Name: _____ () Date: _____

Class: Pr 6 _____

Write your answer in the space provided. Show all your workings clearly.
The marks for the questions are indicated in the questions.

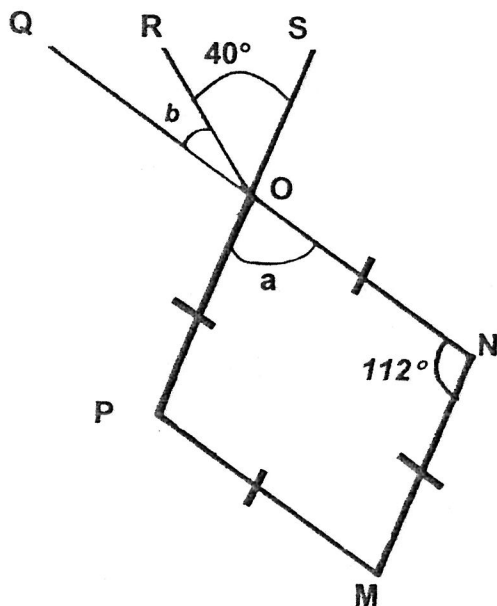
1. ABC is a straight line. Find the unknown $\angle ABE$.

[2m]



Ans: _____^o

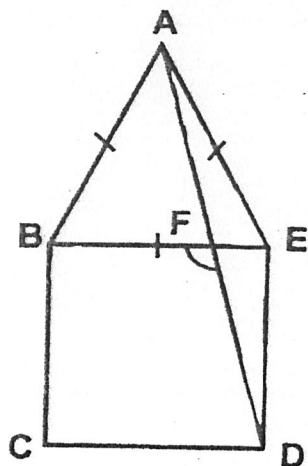
2. The following figure is not drawn to scale. MNOP is a rhombus.
 $\angle MNO = 112^\circ$. QN, RO and SP are straight lines. Find $\angle a$ and $\angle b$.
 [3m]



Ans: (a) $\angle a$ = _____ [1]

(b) $\angle b$ = _____ [2]

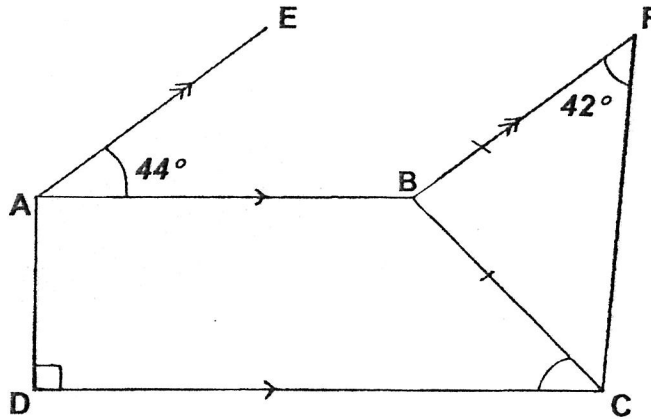
3. In the figure below, ABE is an equilateral triangle and BCDE is a square. [5m]
- (a) Name the angle that is equal to $\angle DAE$.
- (b) Find $\angle BFD$.



Ans: (a) _____ [1]

(b) _____ [4]

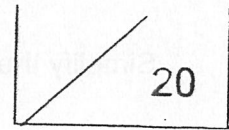
4. The figure below is not drawn to scale. ABCD is a trapezium. AE is a straight line and is parallel to BF. BFC is an isosceles triangle and $BF = BC$. $\angle EAB = 44^\circ$ and $\angle BFC = 42^\circ$. Find $\angle BCD$. [5m]



Ans: _____ [5]

----- End of Paper -----

Red Swastika School
Primary 6 Mathematics Milestone Check (2)
Topic: Fractions and Ratio



Name: _____ ()

Date: _____

Class: Pr 6 _____

For Questions 1 to 4, each question carries 1 mark.
Show your workings clearly and write your answers in the spaces provided.

1. $\frac{7}{12} \div \frac{5}{6} =$ _____

Ans: _____

2. Find the value of $21 \div \frac{7}{9}$.

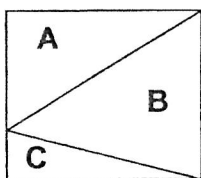
Ans: _____

3. Simplify the following.

$$\frac{1}{3} : 3$$

Ans: _____

4. Area of Triangle A is $\frac{3}{8}$ of the area of the rectangle.
What is the ratio of the area of A to the area of B to the area of C?



Ans: _____

For Questions 5 to 8, each question carries 2 marks.
Show your workings clearly and write your answers in the spaces provided.

5. Mother had $\frac{3}{5}$ of a cake. She cut it into equal pieces. Each piece was $\frac{1}{10}$ of the whole cake. How many equal pieces of cake did Mother cut?

Ans: _____

6. The amount of money Henry and Kevin have is in the ratio of 1 : 2.
If Kevin gives Henry \$10, their new ratio would be 3 : 5.
How much did Henry have at first?

Ans: \$ _____

7. The perimeter of a rectangle is 60 cm.
The ratio of its length to its breadth is 5 : 1. Find the area of this rectangle.

Ans: _____ cm²

8. Patrick, Jerry and Muthu shared a sum of money.
The amount of money Patrick and Jerry received was in the ratio 2 : 3.
Muthu received \$500 which was $\frac{2}{3}$ of the sum of Patrick's and Jerry's share.
How much more money did Muthu receive than Jerry?

Ans: \$ _____

Show your working and statements clearly

9. The Lee family had some apples in a box.

Mr Lee took $\frac{1}{2}$ of them but returned 3 apples to the box.

Mrs Lee took $\frac{1}{2}$ of the remainder but returned 2 apples to the box.

Their daughter took $\frac{1}{2}$ of the remainder but returned 1 apple to the box.

There were finally 5 apples left in the box.

How many apples were there in the box at first?

[4m]

Ans: _____ [4]

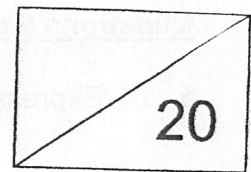
10. A box contained red, blue and purple pens. For every 5 red pens, there were 2 blue pens. For every 3 blue pens, there were 5 purple pens. [4m]
- (a) Find the ratio of the number of red pens to blue pens to purple pens. (Give your answer in the simplest form.)
- (b) When 6 red pens were removed from the box, $\frac{3}{7}$ of the remaining pens were red pens. Find the total number of pens left in the box.

Ans: (a) _____ [1]

(b) _____ [3]

----- End of Paper -----

Red Swastika School
Primary 6 Mathematics Milestone Check (3)
Topic : Percentage



Name: _____ () Date : _____

Class: Pr 6 _____

Questions 1 to 4, each question carries 1 mark.

1. 25% of a number is 63. What is the number?

Ans: _____

2. $\frac{1}{4} + 0.15 + 12\% = \boxed{} \%$

What is the missing number in the box?

Ans: _____

3. Express \$1.60 as a percentage of 80¢.

Ans: _____ %

4. The ratio of girls to boys in a school is 3 : 5.
What percentage of the pupils in the school are girls?

Ans: _____ %

Questions 5 to 8, each question carries 2 marks.

5. Express $12\frac{1}{2}\%$ as a decimal.

Ans: _____

6. After spending 70% of her money, May had \$45 left.
How much did she spend?

Ans: \$ _____

7. Peter sold 20% of his stamps and gave 50% of the remainder to Ali.
What percentage of his stamps did he give to Ali?

Ans: _____ %

8. Ali bought a watch at \$120 after a 20% discount.
How much was the discount?

Ans: \$ _____

Question 9 and Question 10 carries 4 marks each. Show the workings clearly.

9. Stacy had \$100 more than Terry. After spending 60% of her money, Stacy had \$20 less than Terry. How much did Terry have?

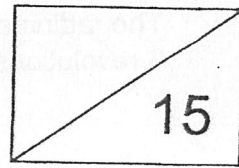
Ans: _____ [4]

10. At Jason's shop, the usual selling price of two similar watches were \$450 each. When he sold one of them at \$450, he earned 50% of what he had paid for it. He sold the other watch at a discount of 20% off the usual price. If he had paid the same amount of money for each watch, how much did he earn altogether?

Ans: _____ [4]

----- End of Paper -----

Red Swastika School
Primary 6 Mathematics Milestone Check (4)
Topic : Circles



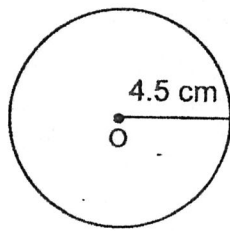
Name: _____ () Date : _____

Class: Pr 6 _____

For Questions 1 to 3, each question carries 2 marks. All workings must be shown clearly.



1. The circle below with point O as the centre of the circle, has a radius of 4.5 cm. Find its circumference. (Take $\pi = 3.14$)

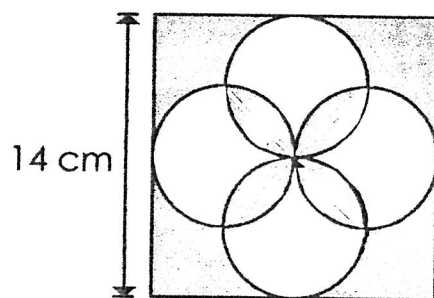


Ans : _____ cm

2. The radius of a wheel is 7 cm. Find the distance covered by the wheel in 3 revolutions. Leave your answer in terms of π .

Ans : _____ cm

3. Find the total area of the shaded parts in the figure below.

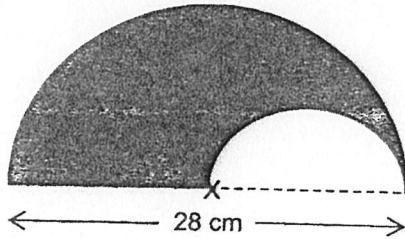


Ans: _____ cm^2

Question 4 carries 4 marks. Question 5 carries 5 marks . All workings must be shown clearly.



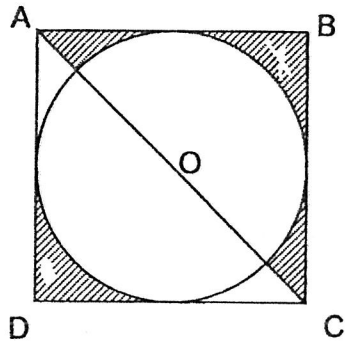
4. The shaded figure is bounded by two semicircles and a straight line. X marks the centre of the straight line. Find the perimeter of the figure. (Take $\pi = \frac{22}{7}$) [4m]



Ans: _____



5. ABCD is a square of side 20 cm. A circle touches the 4 sides of the square as shown. AC is a straight line passing through the centre of the circle O. What is the total area of the shaded parts? (Take $\pi = 3.14$) [5m]



Ans: _____

----- End of Paper -----

YEAR : 2023
 LEVEL : PRIMARY 6
 SCHOOL : RED SWASATIKA SCHOOL
 SUBJECT : MATHEMATICS
 TERM : MILESTONE CHECK (1)

ANGLES IN GEOMETRIC FIGURES

Q1	$180 - (90 + 53) = 37^\circ$	Q2	$180 - 112 = 68$ $68 - 40 = 28^\circ$
Q3	$90 + 60 = 150$ (a) LADE $\frac{180-150}{2} = 15$ $90 - 15 = 75$ $180 - 75 = 105^\circ$ (b)	Q4	$180 - (42 + 42) = 96$ $180 - 44 = 136$ $360 - (136 + 96) = 128$ $180 - 128 = 52^\circ$

FRACTIONS AND RATIO milestone check (2)

Q1	$\frac{7}{10}$	Q2	$21 \times \frac{9}{7} = 27$									
Q3	$\frac{1}{3} : \frac{3}{1}$ $\frac{1}{3} : \frac{9}{3}$ Ans : 1 : 9	Q4	A : B : C 3 : 4 : 1									
Q5	$\frac{3}{5} \div \frac{1}{10} = \frac{3}{5} \times \frac{10}{1}$ = 6	Q6	H + K = Total 1 + 2 = 3 8 : 16 = 24 1u = 10 8u = 10 x 8 = \$80									
Q7	L : B : Perimeter 5 : 1 : 12 12u = 60 5u = $\frac{60}{12} \times 5$ = 25 25 x 5 = 125cm ²	Q8	P : J : P + J 2 : 3 : 5 6 : 9 : 15 M : P + J 2 : 3 10 : 15 10u = 500 1u = \$50									
Q9	5 - 1 = 4 4 x 2 = 8 8 - 2 = 6 6 x 2 = 12 12 - 3 = 9 9 x 2 = 18	Q10	<table><tr><td>R : B</td><td>B : P</td><td>R : B : P</td></tr><tr><td>5 : 2</td><td>3 : 5</td><td>15 : 6 : 10</td></tr><tr><td>15 : 6</td><td>6 : 10</td><td></td></tr></table> R : B + P : Total 3 : 4 : 7 12 : 16 : 28 3u = 6 28u = $\frac{6}{3} \times 28$ = 56 (a) 15 : 6 : 10 (b) 56	R : B	B : P	R : B : P	5 : 2	3 : 5	15 : 6 : 10	15 : 6	6 : 10	
R : B	B : P	R : B : P										
5 : 2	3 : 5	15 : 6 : 10										
15 : 6	6 : 10											

PERCENTAGE (milestone check (3))

Q1	$100\% = 63 \times 4 = 252$	Q2	$\frac{1}{4} + \frac{15}{100} + \frac{12}{100} = \frac{52}{100}$ Ans : 52
Q3	$\frac{1.60}{0.80} \times 100\% = 200\%$	Q4	$8u = 100\%$ $3u = 37.5\%$
Q5	$12.5 \div 100 = 0.125$	Q6	$30\% : 45$ $70\% : \frac{45}{30} \times 70$ $= \$105$
Q7	$\frac{50}{100} \times \frac{80}{100} = \frac{40}{100}$ $= 40\%$	Q8	$80\% = 120$ $20\% = \$30$
Q9	$100\% \text{ of } S = \frac{120}{60} \times 100$ $= 200$ Terry = $200 - 100$ $= 100$	Q10	$150\% = 450$ $100\% = \frac{450}{100} \times 100$ $= 300$ Cost price = 300 Usual selling price = 450 Discount = $450 \times \frac{80}{100}$ $= 360$ 2nd watch = $360 - 300$ $= 60$ $150 + 60 = \$210$

CIRCLES (milestone check (4))

Q1	$\pi d = 3.14 \times 9 = 28.26$
Q2	$\pi d = \pi \times 14 = 14\pi$ $14\pi \times 3 = (42\pi)\text{cm}$
Q3	$3.5 \times 2 = 7$ $\frac{1}{2} \times 7 \times 7 = 24.5$ $24.5 \times 4 = 98$
Q4	$\frac{1}{2} \pi d = \frac{1}{2} \times \frac{22}{7} \times 14 = 44$ $\frac{1}{2} \pi d = \frac{1}{2} \times \frac{22}{7} \times 14$ $= 22$ $28 \div 2 = 14$ $44 + 22 + 14 = 80\text{cm}$
Q5	$20 \times 20 = 400$ $3.14 \times 10 \times 10 = 314$ $400 - 314 = 86$ $86 \div 8 = 10.75$ $10.75 \times 6 = 64.5\text{cm}^2$

2

END



Nan Hua Primary School
Primary 6 Mathematics
Term 1 Non - Weighted Assessment 2023
Paper 1

Marks	
Section A:	/10
Section B:	/12
Total:	22

Name: _____ ()

Class: Primary 6M _____

Date: _____

Duration: 30 min

Parent's Signature

Answer all questions. The use of calculators is NOT allowed.

Section A

Questions 1 to 2 carry 1 mark each. Question 3 to 6 carry 2 marks each.

For each question, four options are given. One of them is the correct answer.

Make your choice and write your answer in the bracket provided.

(10marks)

- 1 Arrange the following fractions from the greatest to the smallest.

$$\frac{5}{9}, \frac{1}{2}, \frac{5}{6}$$

- | | <u>Greatest</u> | | <u>Smallest</u> |
|-----|-----------------|---------------|-----------------|
| (1) | $\frac{1}{2}$ | $\frac{5}{9}$ | $\frac{5}{6}$ |
| (2) | $\frac{5}{6}$ | $\frac{5}{9}$ | $\frac{1}{2}$ |
| (3) | $\frac{5}{6}$ | $\frac{1}{2}$ | $\frac{5}{9}$ |
| (4) | $\frac{1}{2}$ | $\frac{5}{6}$ | $\frac{5}{9}$ |

()

2 Which one of the following is a common factor of 16 and 36?

- (1) 144
- (2) 8
- (3) 6
- (4) 4

()

3 What is the value of $360 + (60 - 6) \div 6$?

- (1) 69
- (2) 359
- (3) 369
- (4) 419

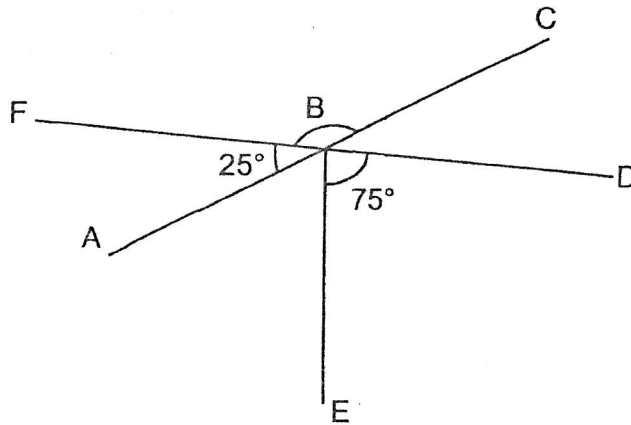
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4 A bag cost \$200. Kate bought it at a 25% discount. How much did she pay for the bag after adding 8% GST?

- (1) \$162
- (2) \$150
- (3) \$138
- (4) \$134

()

- 5 AC and DF are straight lines. Find $\angle CBF$.



- (1) 160°
- (2) 155°
- (3) 100°
- (4) 80°

()

- 6 Shanice had 350 marbles. She gave some of the marbles to her friends and had 280 marbles left. What was the percentage decrease in the number of marbles?

- (1) 20%
- (2) 25%
- (3) 70%
- (4) 80%

()

Section B

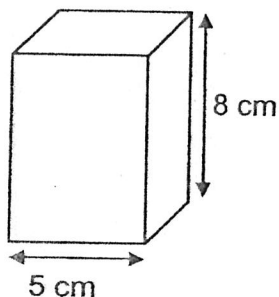
Questions 7 to 8 carry 1 mark each. Questions 9 to 13 carry 2 marks each.
Show your working clearly and write your answers in the spaces provided.
For questions which require units, give your answers in the units stated. (12 marks)

Do not write
in this space

- 7 Express $2\frac{3}{8}$ as a decimal.

Ans: _____

- 8 A cuboid has a height of 8 cm and a square base of edge 5 cm. What is its volume?



Ans: _____ cm³

Do not write
in this space

- 9 A poster has an area of $\frac{3}{4} \text{ m}^2$. Its length is $\frac{7}{8} \text{ m}$. Find its breadth.

Ans: _____ m

- 10 Sam has some 1-dollar and 20-cent coins in the ratio 2 : 5. The total value of the coins is \$21. How many 20-cent coins does he have?

Ans: _____

- 11 The table below shows Macy's savings from January to March. Her average savings for the 3 months was \$52. How much did she save in March?

Do not write
in this space

Month	January	February	March
Savings	\$28	\$70	?

Ans: \$ _____

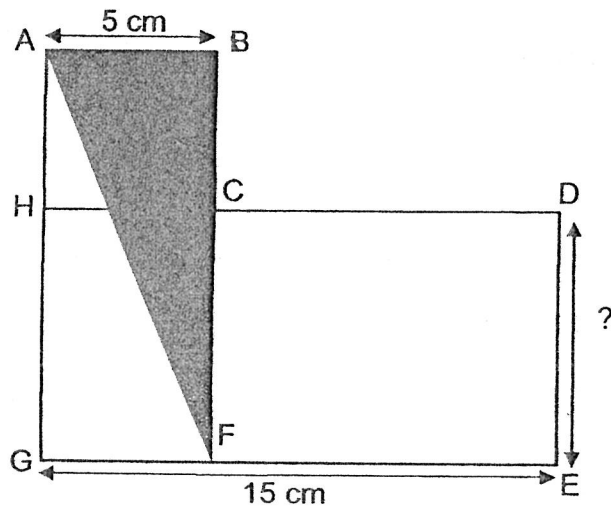
- 12 Suzy packed 13 kg of flour into small packets. Each packet contained $\frac{2}{3}$ kg of flour. How much flour was left in the packet that was not completely filled? .

Ans: _____ kg

13

In the figure below, $ABCH$ is a square and $DEGH$ is a rectangle. Given that the area of the shaded triangle is 35 cm^2 , find the length of DE .

Do not write
in this space



Ans: _____ cm

----- End of Paper -----



Nan Hua Primary School
Primary 6 Mathematics
Term 1 Non - Weighted Assessment 2023
Paper 2

Marks	
Section A:	/8
Section B:	/20
Total:	28

Name: _____ ()

Class: Primary 6M_____

Date: _____

Duration: 45 min

Parent's Signature

Answer all questions. The use of an approved calculator is allowed.

Section A

Questions 1 to 4 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.
(8 marks)

Do not write
in this space

- 1 Simon has some peanuts. He wants to pack 28 packets of peanuts. Each packet contains 0.8 kg of peanuts. He has 620 g of peanuts left. How many kilograms of peanuts did he have at first?

Ans: _____ kg [2]

- 2 A sum of money was shared between Ali and John in the ratio 2 : 5. John gave $\frac{1}{4}$ of his share to Ali. What is the new ratio of Ali's share to John's share of the money?

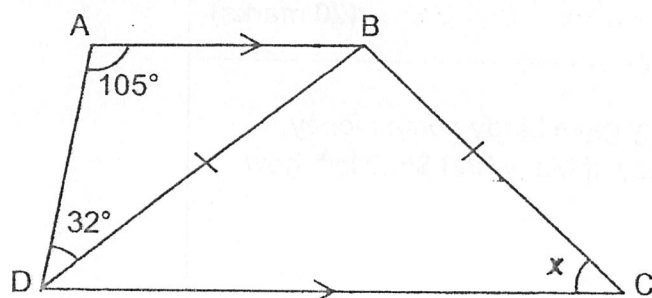
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in this space

Ans: _____ [2]

- 3 Andy packed 168 beads into 3 bags, A, B and C. The ratio of the number of beads in Bag A to the number of the number of beads in Bag B to the number of beads in Bag C was 3: 15: 10. How many beads were there in Bag C?

Ans: _____ [2]

- 4 In the figure below, ABCD is a trapezium and BCD is an isosceles triangle. Find $\angle x$.



Do not write
in this space

Ans: _____° [2]

Section B

For questions 5 to 9, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question. (20 marks)

Do not write
in this space

- 5 Macy had \$270 less than Lindy. After Macy gave Lindy some money, Lindy had 4 times as much money as Macy. If Macy had \$520 left, how much money did she have at first?

Ans: _____ [3]

- 6 An empty rectangular tank measures 52 cm by 45 cm by 40 cm. A tap was turned on water flowed at a rate of 5.2 litres per minute. How long would it take for the tank to be $\frac{1}{2}$ -filled?

Ans: _____ [3]

- 7 Ashton, Bryan and Charles were given the same number of funfair tickets to sell. Charles sold 92 tickets. Bryan had twice as many tickets left unsold as Ashton's. Charles number of tickets left unsold was 14 fewer than Bryan's. There was a total of 491 unsold tickets. How many tickets did each of them have to sell?

Do not write
in this space

Ans: _____ [4]

- 8 Fatimah spent $\frac{1}{4}$ of her money on 8 cookies and 2 muffins. A muffin cost three times as much as a cookie. She bought some more cookies with $\frac{2}{7}$ of her remaining money. How many cookies did Fatimah buy altogether?

Do not write
in this space

Ans: _____ [5]

- 9 Danny had 880 cards in his collection. 25% of the cards were football cards and the rest were basketball cards.

Do not write
in this space

- (a) How many more basketball cards than football cards did he have in his collection?

Ans: (a) _____ [1]

- (b) How many more football cards must Danny buy if he wanted to increase the number of football cards in his collection to 45%?

Ans: (b) _____ [4]

----- End of Paper -----

YEAR : 2023
 LEVEL : PRIMARY 6
 SCHOOL : NAN HUA PRIMARY SCHOOL
 SUBJECT : MATHEMATICS
 TERM : TERM 1 NON – WEIGHTED ASSESSMENT

TERM 1 NON WEIGHTED ASSESSMENT

Q1	2	Q2	4	Q3	3	Q4	1	Q5	2
Q6	1								

Q7	2375 2.375	Q8	$8 \times 5 = 40$ $40 \times 5 = 200\text{cm}^3$
Q9	$\frac{3}{4} \div \frac{7}{8} = \frac{24}{28}$ $= \frac{6}{7}\text{m}$	Q10	$1 \times 2 = 2$ $0.20 \times 5 = 1$ $1 + 2 = 3$ $21 \div 3 = 7$ $7 \times 5 = 35$
Q11	$52 \times 3 = 156$ $156 - 70 = 86$ $86 - 28 = \$58$	Q12	$\frac{1}{2} \times \frac{2}{3} = \frac{1}{3}\text{kg}$
Q13	Area of ABFG : $35 \times 2 = 70$ Length of BCF : $14 - 5 = 9\text{cm}$		

PAPER 2

Q1	$0.8 \times 28 = 22.4$ $22.4 + 0.620 = 23.02\text{kg}$	Q2	A : J 8 : 20 J : A 13 : 15
Q3	A : B : C 3 : 15 : 10 $168 \div 28 = 6$ $6 \times 10 = 60$	Q4	$180 - 105 - 32 = 43^\circ$
Q5	$520 \times 4 = 2080$ $520 \times 5 = 2600$ $(2600 - 270) \div 2 = \$1165$	Q6	$52 \times 45 \times 40 = 93\,600$ $93\,600 = 93.6\text{L}$ $93.6\text{L} \div 52 = 18$ $18 \div 2 = 9\text{ minutes}$
Q7	2u : unsold $2u - 14$ $491 + 14 = 505$ $505 \div 5 = 101$ $101 \times 2 = 202$ $202 - 14 = 188$ $188 + 92 = 280$	Q8	$2 \times 3 = 6$ $6 + 8 = 14$ 1u : 14 $56 \div 7 = 8$ $8 \times 2 = 16$ $16 + 4 = 20$
Q9	(a) $220 \times 2 = 440$ (b) 58% : 660 1% : 12, 45% : 540 $540 - 220 = \underline{320}$		

1
END



Methodist Girls' School (Primary)
Primary 6 Mathematics
Weighted Assessment 1 2023

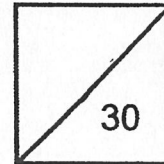
The use of calculators
is allowed.

Name: _____ ()

Date: _____

Class: Primary 6. _____

Marks:



Parent's Signature: _____

Short – Answer Questions (SAQ)

Questions 1 to 5 carry 2 marks each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (12 marks)

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in this space

1. The ratio of Ali's salary to Ben's salary is 4 : 7.

(a) What fraction of Ali's salary is Ben's salary?

Ans: (a) _____

(b) What fraction of their total salary is Ali's salary?

Ans: (b) _____

2. Joey's allowance is $\frac{3}{4}$ of Mary's allowance.

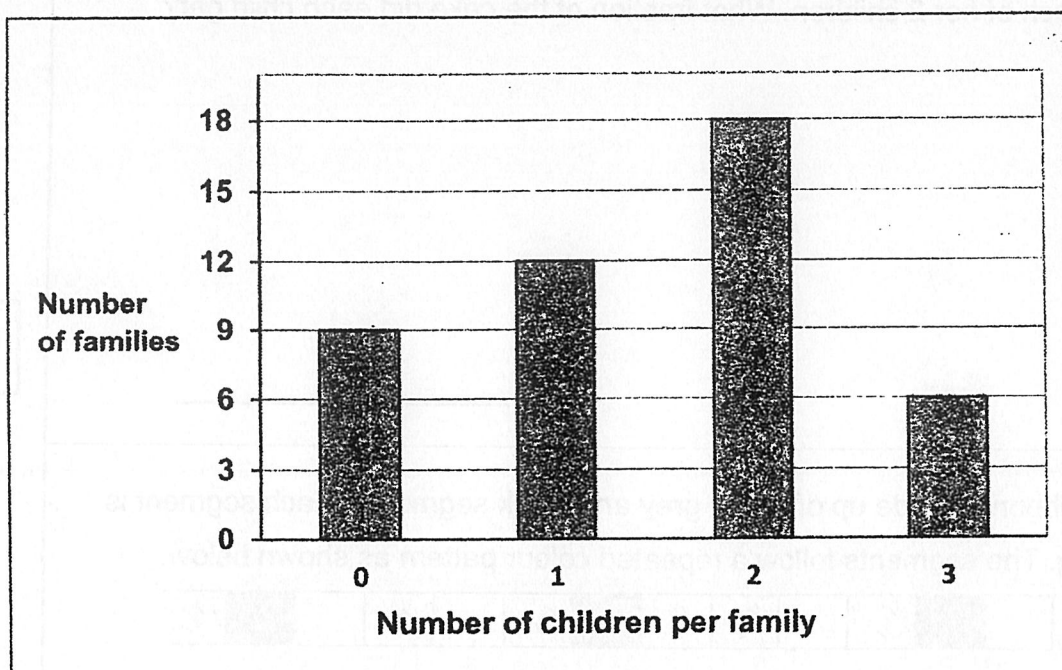
(a) What is the ratio of Joey's allowance to the total allowance of Joey and Mary?

Ans: (a) _____

(b) Mary's allowance is \$20. How much is Joey's allowance?

Ans: (b) \$ _____

3. The bar graph below shows the number of children in a housing estate.



Do not write
in this space

- (a) What is the ratio of the number of families with 1 child to the number of families with 3 children? Give your answer in the simplest form.

Ans: _____

- (b) What fraction of the families in the estate has 2 children?

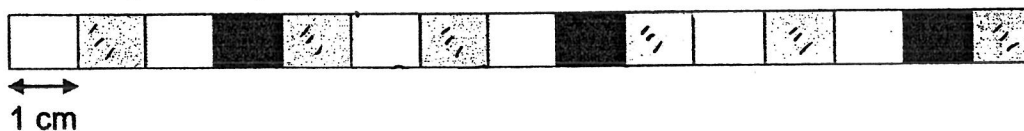
Ans: _____

4. Mrs Lim baked a cake and gave $\frac{2}{5}$ of it to her husband. She gave the remaining cake to each of her 2 children. What fraction of the cake did each child get?

Do not write
in this space

Ans: _____

5. A roll of ribbon is made up of white, grey and black segments. Each segment is 1 cm long. The segments follow a repeated colour pattern as shown below.



Given that the piece of ribbon is 42 cm long, what fraction of the ribbon is white?

Ans: _____

6. Leon wrote a fraction on the whiteboard. The difference between the numerator and denominator of the fraction is 27. When 3 is added to its denominator, the fraction becomes $\frac{1}{4}$. What is the fraction that Leon wrote?

Ans: _____

Long Answer Questions (LAQ)

For questions 7 to 12, show your working clearly and write your answers in the space provided. The number of marks available is shown in brackets [] at the end of each question or part-question. (18 marks)

Do not write
in this space

7. At a tennis match, the ratio of the number of adults to the number of children is 5 : 2. There were 3 times as many men as women. The number of children is 350 fewer than the number of men. How many women were at the tennis match?

Ans: _____ [3]

8. Linda made 3 l of lemonade. She gave $\frac{3}{5}$ of it to her neighbour. She poured the remaining lemonade into identical cups. The capacity of each cup was $\frac{3}{8}$ l.
a) How many cups could she fill to the brim?

Ans: (a) _____ [2]

- b) How much lemonade was left?

Ans: (b) _____ [1]

9. 108 boys registered for a camp. The number of girls who registered for the camp is $\frac{1}{3}$ the number of boys who registered. The ratio of the number of participants who could swim to the number of participants who could not is 7 : 2. $\frac{3}{8}$ of those who could not swim are girls. Find the number of girls who could swim.

Do not write
in this space

Ans: _____ [3]

☐

10. Ben and Kenny had 250 marbles altogether. Ben gave away $\frac{3}{5}$ of his marbles and Kenny lost $\frac{2}{3}$ of his marbles. In the end, both of them had 95 marbles left altogether. How many marbles did Ben have at first?

Ans: _____ [3]

☐

11. Venna fills two identical cylinders with water and oil to the brim. $\frac{2}{5}$ of cylinder A is filled with oil while $\frac{1}{8}$ of cylinder B is filled with oil. There is 110 ml more water in cylinder B than in cylinder A. What is the total volume of the water in both cylinders?

Cylinder A



Cylinder B



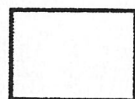
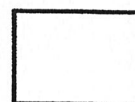
Ans: _____ [3]

12. Container A, Container B and Container C had a total of 1600 ml of water at first. All 3 containers then had equal amount of water after 40 ml of water from Container C was poured away and $\frac{1}{5}$ of the amount of water in Container A was poured out equally into Container B and Container C. What was the amount of water in Container C at first?

Ans: _____ [3]

END OF PAPER

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Methodist Girls' School (Primary)
Primary 6 Mathematics
Weighted Assessment 2 2023

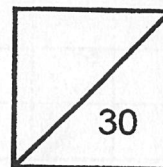
The use of calculator
is allowed.

Name: _____ ()

Date: _____

Class: Primary 6. _____

Marks:



Parent's Signature: _____

Short – Answer Questions (SAQ)

Questions 1 to 6 carry 2 marks each. Write your answers in the spaces provided.
 For questions which require units, give your answers in the units stated. (12 marks)

Do not write
in this space

1. (a) Express $\frac{3}{5}$ as a percentage.

Ans: (a) _____ %

- (b) Express 1.2% as a decimal.

Ans: (b) _____

2. (a) Class 6A has 40 students. 26 of the students are boys.
 What percentage of the students are girls?

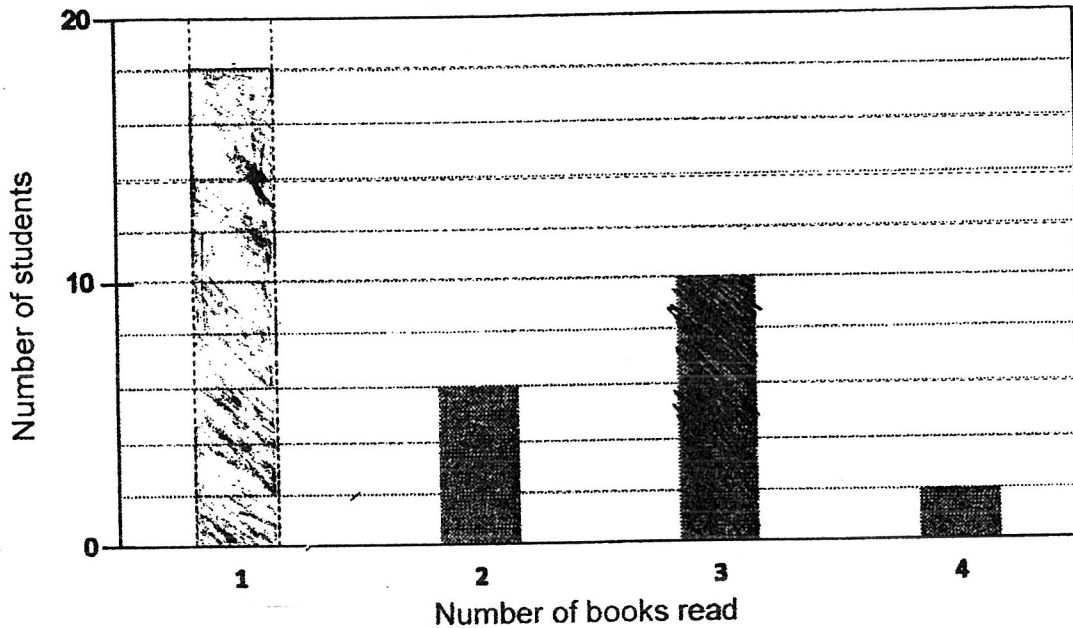
Ans: (a) _____ %

- (b) Mrs Raj paid \$181.90 for an iron which included 7% GST.
 What was the price of the iron without GST?

Ans: (b) \$ _____

3. The bar graph shows the number of books students from class 6G read each week. All the students read at least 1 book. 50% of the students read more than 1 book.

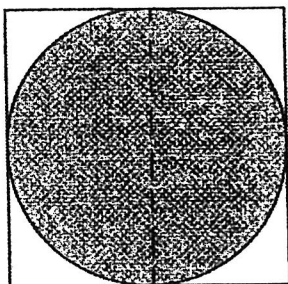
Do not write
in this space



- (a) Draw the bar for the number of students who read 1 book in the graph above.
- (b) The number of students who read 4 books is _____ % of those who read 3 books.

4. The perimeter of the square shown below is 40 cm.

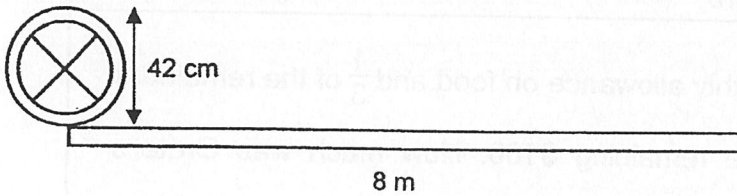
Find the area of the circle. (Take $\pi = 3.14$)



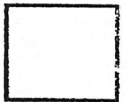
Ans: _____ cm²

5. A wheel with a diameter of 42 cm is rolled along a path measuring 8 m. How many complete turns can the wheel make? (Take $\pi = 3.14$)

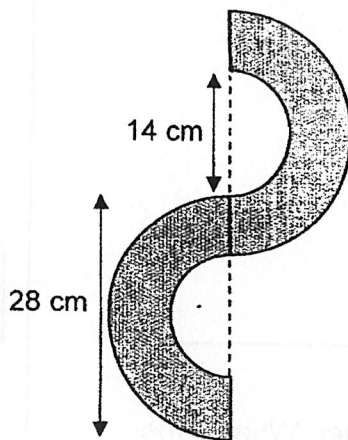
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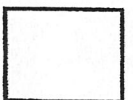
Ans: _____



6. The figure is made up of four semicircles. The diameter of the large semicircle is 28 cm while the diameter of the small semicircle is 14 cm. Find the perimeter of the figure. (Take $\pi = \frac{22}{7}$)



Ans: _____ cm



Long Answer Questions (LAQ)

For questions 7 to 12, show your working clearly and write your answers in the space provided. The number of marks available is shown in brackets [] at the end of each question or part-question. (18 marks)

Do not write
in this space

7. Gretel spent 55% of her monthly allowance on food and $\frac{1}{3}$ of the remainder on transport. She saved the remaining \$180. How much was Gretel's monthly allowance?

Ans: _____ [2]

8. Tina has a collection of red, blue and yellow beads. The number of blue beads is 40% of the number of red beads. $\frac{3}{10}$ of her beads are yellow and 325 of her beads are red.
- (a) How many beads does Tina have altogether?

Ans: (a) _____ [2]

- (b) Tina receives another 78 yellow beads from her sister. What is the percentage increase in the number of yellow beads that Tina has?

Ans: (b) _____ [2]

9. A yellow and a pink watch had the same original price. The yellow watch was given a 20% discount while the pink watch was given a 30% discount. To buy the yellow watch, Jane would need \$4.50 more than what she had. Jane bought the pink watch and had \$3 left.

Do not write
in this space

(a) What was the original price of each of the watches?

Ans: (a) _____ [2]

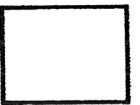
(b) How much money did Jane have?

Ans: (b) _____ [1]

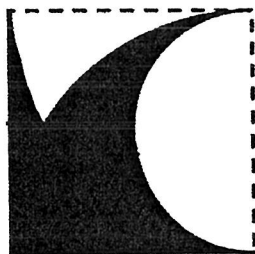
10. The participants of a camp are divided into two equal groups. In the first group, there are 10 more girls than boys. In the second group, there are 18 more boys than girls. 40% of the participants are girls. How many of the participants are boys?

Do not write
in this space

Ans: _____ [2]

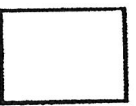


11. A figure is formed by two identical quarter circles and a semicircle within a square of side 64 cm. Find the perimeter of the shaded figure.
(Take $\pi = 3.14$)



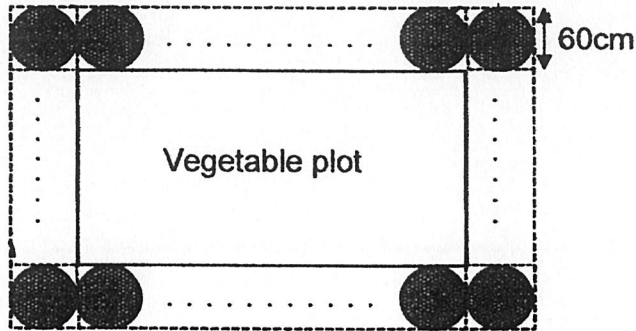
64 cm

Ans: _____ [3]



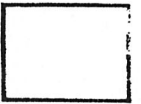
12. The figure shows a vegetable plot with a perimeter of 1080 cm. The ratio of the length to the breadth of the vegetable plot is 2 : 1. A footpath tiled with identical circular tiles is built around it. The diameter of each tile is 60 cm. Each tile is in contact with the one next to it.

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in this space.



- (a) Find the number of circular tiles used to build the footpath.

Ans: (a) _____ [1]

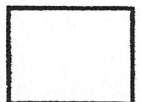


- (b) Find the area of the footpath not covered by the tiles.

Give your answer correct to two decimal places.

(Take the calculator value of π)

Ans: (b) _____ [3]



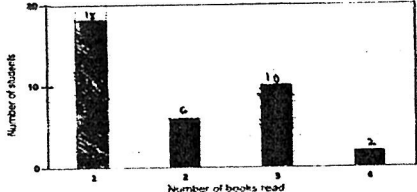
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YEAR : 2023
 LEVEL : PRIMARY 6
 SCHOOL : METHODIST GIRLS' SCHOOL (PRIMARY)
 SUBJECT : MATHEMATICS
 TERM : WEIGHTED ASSESSMENT 1

WEIGHTED ASSESSMENT 1

Q1	(a) $\frac{7}{4}$ (b) $4 + 7 = 11$ $\frac{4}{11}$	Q2	(a) $3 : 7$ (b) $4u : \$20$ $1u : 5$ Joey : $3u = \$15$									
Q3	(a) $12 : 6$ $2 : 1$ (b) Total : $9 + 12 + 18 + 6 = 45$ $\frac{18}{45} = \frac{6}{15} = \frac{2}{5}$	Q4	$1 - \frac{2}{5} = \frac{3}{5}$ $\frac{3}{5} = 2$ children $\frac{3}{5} \div 2 = \frac{3}{10}$ of the cake									
Q5	$42 \div 5 = 8r2$ $8 \times 2 = 16$ $16 + 1 = 17$ Ans : $\frac{17}{42}$	Q6	$37 - 10 = 27$ Ans : $\frac{10}{37}$									
Q7	<table border="1"><tr><td>A : C</td><td>M : W</td><td>M : W : C</td></tr><tr><td>5 : 2</td><td>3 : 1</td><td>15 : 5 : 8</td></tr><tr><td>20 : 8</td><td>15 : 5</td><td></td></tr></table> $15 - 8 = 7u$ $7u : 350$ $1u : 50$ Women : $5u = 250$ women	A : C	M : W	M : W : C	5 : 2	3 : 1	15 : 5 : 8	20 : 8	15 : 5		Q8	a) $3L \div 5 = \frac{3}{5}L$ $\frac{3}{5} \times 3 = \frac{9}{5}$ $= 1\frac{4}{5}$ $3 - 1\frac{4}{5} = 1\frac{1}{5}$ $1\frac{1}{5} \div \frac{3}{8} = 3$ cups b) $\frac{1}{50} \times \frac{3}{8} = \frac{3}{40}L$
A : C	M : W	M : W : C										
5 : 2	3 : 1	15 : 5 : 8										
20 : 8	15 : 5											
Q9	$108 \rightarrow 3u$ $1u \rightarrow 36$ $36 \times 4 = 144$ $7 + 2 = 9$ $9p : 144$ $1p : 16$ $2p : 32$ $3 + 5 = 8p$ $32 \div 8 = 4$ $4 \times 3 = 12$ $36 - 12 = 24$ Girls	Q10	$\frac{1}{3}K : 500 - 475 = 25$ $K = 25 \times 3 = 75$ $B : 250 - 75 = 175$									
Q11	$\frac{2}{5} - \frac{1}{8} = \frac{11}{40}$ $11U : 110\text{ml}$ $1u : 10$ $\frac{3}{5} = \frac{24}{40}$ $\frac{7}{8} = \frac{35}{40}$ $\frac{8}{8} = \frac{40}{40}$ $59 \times 10 = 590\text{ml}$	Q12	$\frac{1}{5}$ of A : $520 \div 4 = 130$ $1600 - 40 = 1560$ $1560 \div 3 = 520$ $130 \div 2 = 65$ $520 - 65 + 40 = 495\text{ml}$									

WEIGHTED ASSESSMENT 2

Q1	$(a) \frac{3}{5} = \frac{60}{100}$ $= 60\%$ $(b) \frac{1.2}{100} = 0.012$	Q2	$(a) 40 - 26 = 14$ $\frac{14}{40} \times 100\% = 35\%$ $(b) 181.90 : 107\%$ $1\% : 181.90 \div 107 = 1.70$ $100\% : \$170$
Q3	<p>(a)</p>  <p>(b) 20%</p>	Q4	$40 \div 4 = 10$ $\frac{5 \times 5 \times 3.14}{1} = 78.75 \text{cm}^2$
Q5	$1\text{m} = 100\text{cm}$ $\text{Circumference of circle} = 3.14 \times 42 = 131.88$ $800 \div 131.88 = 6.0661$ $\approx 6 \text{ complete turns}$	Q6	$28 \div 2 = 14$ $2\text{Ls} : 2 \times \frac{22}{7} \times 14$ $= 88$ $1\text{Ls} : 88 \div 2 = 44$ $28 - 14 = 14$ $14 \div 2 = 7$ $C : 2\pi r$ $2 \times \frac{22}{7} \times 7 = 44$ $44 \div 2 = 22$ $7 + 44 + 22 + 22 + 7 + 44 = 146\text{cm}$
Q7	$100 - 55 = 45$ $45 \div 3 = 15$ $15 \times 2 = 30\%$ $30\% : 180$ $10\% : 180 \div 3 = 60$ $100\% : \$600$	Q8	$(a) 10u = 325$ $1u = 32.5$ $\text{Total} : 6 + 14 = 20u$ $20u = 32.5 \times 20 = 650$ $(b) 3u : 65 \times 3 = 195$ $\frac{28}{195} \times 100 = 40\%$
Q9	$(a) 4.50 + 3 = 7.50$ $30 - 20 = 10$ $10\% : 7.50$ $100 : 7.50 \times 1 = \$75$ $(b) \$75 : 70\%$ $\$75 : 100\%$ $70\% 75 \times 0.7 = \$52.50$	Q10	$2u + 18 = 40\%$ $60\% : 2u + 18 + 8$ $20\% : 8$ $60\% : 24$ $\text{Ans: } 24$
Q11	$\frac{1}{4} \times 3.14 \times 108 = 100.48$ $+$ $\frac{1}{2} \times 3.14 \times 64 = 100.48$ $+$ $64 + 64 = 328.96\text{cm}$	Q12	$(a) 2 + 1 + 2 + 1 = 6$ $6u : 1080$ $1u : 180$ $2u : 180 \times 2 = 360$ $1B : 180 \div 60 = 3$ $360 \div 60 = 6$ $(6 + 3) \times 2 = 18$ $18 + 4 = 22 \text{ tiles}$

			$(b) 60 \times 60 = 3600$ $\frac{30 \times 30 \times \Pi}{1} = 900\Pi = 3.14$
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END

Pg 3



MARIS STELLA HIGH SCHOOL (PRIMARY)
TERM 1 WEIGHTED ASSESSMENT
PRIMARY 6 MATHEMATICS
3 MARCH 2023

17 questions
55 marks
Time: 1 h 30 min

NAME : _____

CLASS : PRIMARY 6 _____

INSTRUCTIONS TO CANDIDATES

1. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
 2. FOLLOW ALL INSTRUCTIONS CAREFULLY.
 3. ANSWER ALL QUESTIONS.
 4. SHOW YOUR WORKINGS CLEARLY AS MARKS ARE AWARDED FOR CORRECT WORKING.
 5. WRITE YOUR ANSWERS IN THIS BOOKLET.
- YOU ARE **ALLOWED** TO USE A CALCULATOR.

MARKS OBTAINED		
TOTAL	/ 55	Parent's Signature: <div style="border-bottom: 1px solid black; height: 20px; margin-top: 5px;"></div> Date: _____

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space.

1. (a) Write down the first common multiple of 4 and 6.
- (b) Write down all the common factors of 15 and 20.

Answer: (a) _____

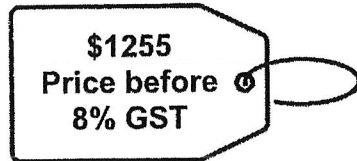
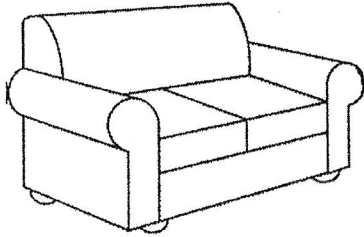
(b) _____

2. Serene poured 3000 ml of apple juice into 4 identical bottles. How many litres of apple juice were there in one bottle?

Answer: _____ l

--

3. Find the amount of GST for the sofa shown. The price shown below does **not** include GST.



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write in
this
space.

Answer: \$ _____

4. Dexter's height is $\frac{5}{6}$ of Gavin's height. Gavin is 120 cm tall. Find their total height.

Answer: _____ cm

--

5. Meiling, Ahmad and Gopal had a total of 162 sweets. The ratio of the number of sweets Meiling had to the number of sweets Ahmad had to the number of sweets Gopal had was 2 : 3 : 4. How many sweets did Gopal have?

Do not
write in
this
space.

Answer: _____

For Questions 6 to 17, show your working clearly in the space below each question and write your answers in the spaces provided. The number of marks available is shown in the brackets [] at the end of each question or part-question. (45 marks)

Do not write in this space.

6. (a) Merry Cafe sold 25 999 ice cream bars last year. Express this number to the nearest ten.
- (b) Use all the digits 3, 4, 5, 6 to form
- (i) the smallest multiple of 2.
 - (ii) the greatest number between 5000 and 6000.

Answer: (a) _____ [1]

(b) (i) _____ [1]

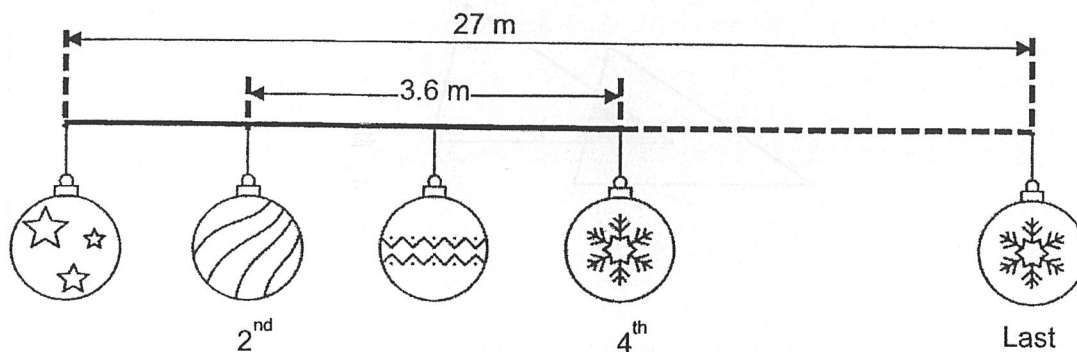
(b) (ii) _____ [1]

7. Lucas has \$1260 in his bank account. The bank pays him an annual interest of 2.5%. How much money will he have in his bank account after a year if he does not withdraw any of his savings?

Answer: _____ [3]

8. Christmas ornaments were displayed in a straight line at equal distance apart. The distance between the 2nd and the 4th ornament was 3.6 m. The first ornament and the last ornament was 27 m apart. How many ornaments were there?

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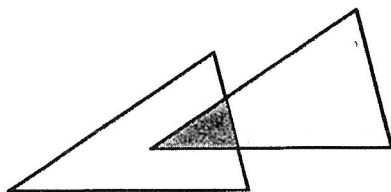
Answer: _____ [3]

9. Grace had some money. She spent \$2200 on a watch and $\frac{1}{5}$ of her remaining money on some books. She had $\frac{1}{4}$ of her money left. How much money did she have at first?

Answer: _____ [3]

10. The figure below shows 2 identical triangles. The shaded area is 18% of each triangle. Find the ratio of the shaded area to the area of the figure.

Do not write in this space.



Answer: _____ [3]

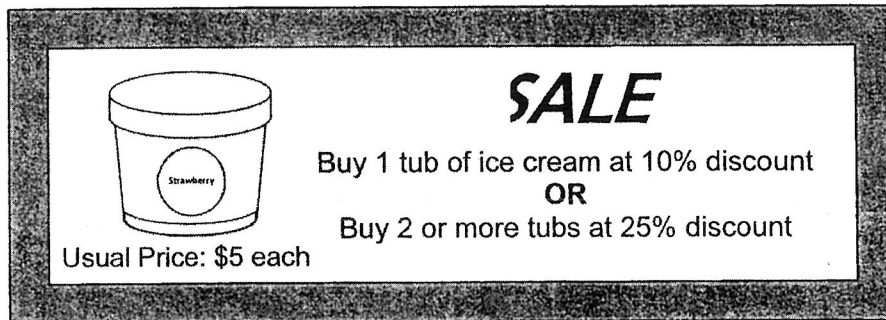
11. Frank bought 3 more cookies than doughnuts. Each cookie cost \$0.80 and each doughnut cost \$1.40. He spent \$30 less on the cookies than on the doughnuts. How many doughnuts did he buy?

Do not
write in
this
space.

Answer: _____ [3]

12. At a sale, MSHP Supermarket sold tubs of ice cream as shown in the poster below.

Do not
write in
this
space.



- (a) Nancy bought one tub of ice cream at the sale. How much did she pay?

Answer: (a) _____ [1]

- (b) Charles had \$36. What was the **maximum** number of tubs of ice cream he can buy with \$36?

Answer: (b) _____ [3]

13. Tom spent $\frac{1}{5}$ of his money on 7 notebooks and 4 pens. The cost of each notebook is twice the cost of each pen. He bought some more pens with $\frac{3}{10}$ of his money. How many pens did he buy altogether?

Do not
write in
this
space.

Answer: _____ [4]

14. Daisy, Eve and Fiona had 720 stickers altogether. Daisy gave 25% of her stickers to Eve and 35% of her stickers to Fiona. In the end, each of the 3 girls had the same number of stickers. What is the difference in the number of stickers Eve and Fiona had at first?

Do not
write in
this
space.

Answer: _____ [4]

15. Tim bought some cartons of apples and papayas.
The cost of all the apples was twice that of all the papayas.
The total cost of the apples and papayas was \$540.

Do not
write in
this
space.

(a) How much was the cost of the apples?

Answer: (a) _____ [2]

The number of cartons of apples Tim bought was $\frac{3}{5}$ of the number of cartons of papayas bought. Each carton of apples was \$28 more than each carton of papayas.

(b) How many cartons of papayas did he buy?

Answer: _____ [3]

--

16. There are 836 students in Everland Primary School. $\frac{7}{10}$ of the boys and $\frac{7}{8}$ of the girls take the school bus to school. The number of boys who do not take the school bus is twice the number of girls who do not take the school bus. How many girls are there in the school?

Do not
write in
this
space.

Answer: _____ [5]

17. Adam, Ben and Clive each has some green and red pens.
- In total, Adam has 9 more pens than Ben and Ben has 5 more green pens than Adam.
 - The ratio of the number of red pens Adam has to the number of red pens Ben has is 5 : 3.
 - The ratio of the number of green pens to the number of red pens Clive has is 3 : 1.

Do not
write in
this
space.

- (a) How many red pens do Adam and Ben have altogether?

Answer: (a) _____ [3]

- (b) Each statement below is either true, false, or not possible to tell from the information given. For each statement, put a tick (✓) to indicate your answer.

	True	False	Not possible to tell
Among the three boys, Adam has the most number of pens.			
In total, Clive has an odd number of pens.			

[2]

End of Paper



MARIS STELLA HIGH SCHOOL (PRIMARY)

PRIMARY 6 MATHEMATICS

TERM 2 WEIGHTED ASSESSMENT

11 MAY 2023

17 questions

55 marks

Total Time: 1 hour and 30 minutes

NAME : _____ ()

CLASS : PRIMARY 6 _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

YOU ARE ALLOWED TO USE A CALCULATOR.

ANSWER ALL QUESTIONS.

MARKS OBTAINED

TOTAL: _____ / 55

Parent's Signature:

Date:

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space.

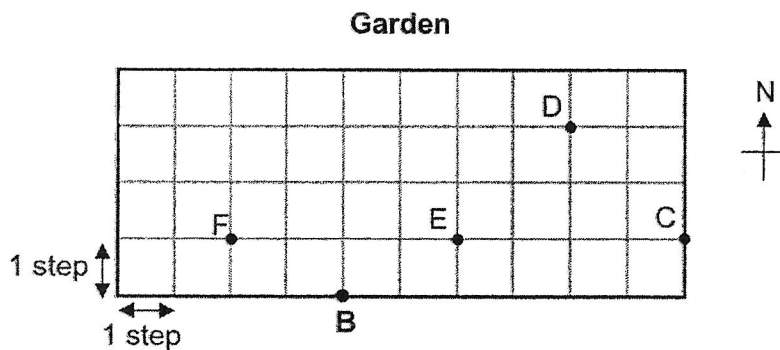
1. Use all the digits 0, 2, 5, 3 to form
- (a) the smallest 4-digit odd number

Answer: (a) _____

- (b) the greatest multiple of 5

Answer: (b) _____

2. John was strolling in a garden and he started his stroll at position **B** facing north.



John took 2 steps west then 3 steps north and finally 2 steps west.

- (a) Mark 'X' on the grid to indicate John's final position.
- (b) Which letter (C, D, E or F) is south-east of John's final position?

Answer: (b) _____

3. Mrs Lee spent $\frac{2}{7}$ of her salary on a bag. The bag cost \$320. How much was Mrs Lee's salary?

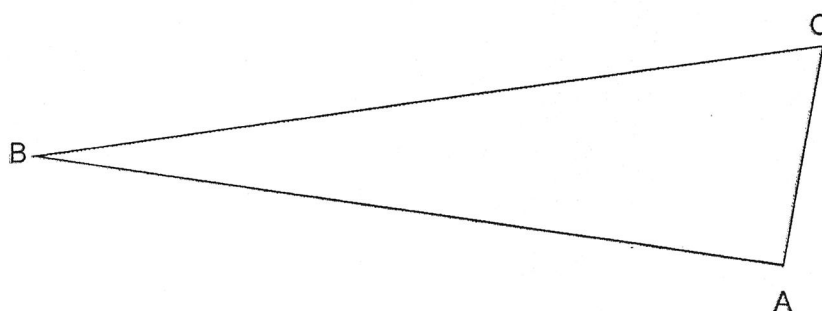
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Answer: \$ _____

4. Measure and write down

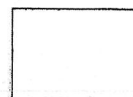
(a) the length of BC.

(b) the size of $\angle ABC$.

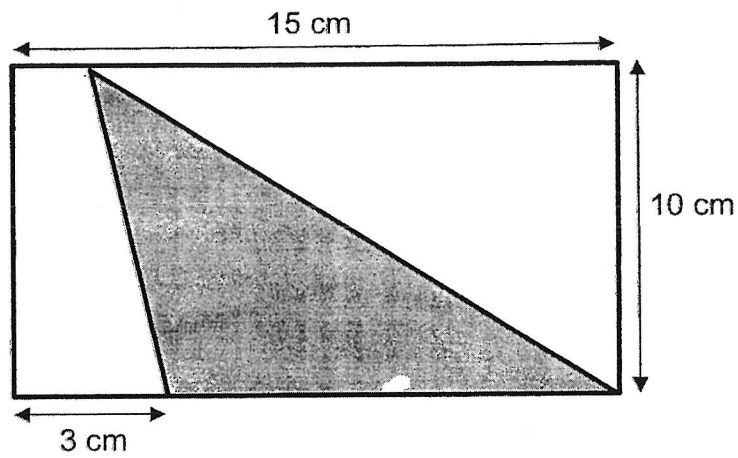


Answer: (a) _____ cm

(b) _____ °



5. Find the area of the shaded triangle.



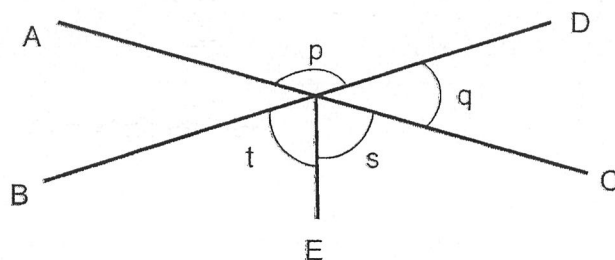
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Answer: _____ cm^2

For Questions 6 to 17, show your working clearly in the space below each question and write your answers in the spaces provided. The number of marks available is shown in the brackets [] at the end of each question or part-question. (45 marks)

Do not write in this space.

6. AC and BD are straight lines. $\angle s = \angle t$. $\angle s$ is 65° .



- (a) Find $\angle p$.

Answer: (a) _____ [1]

- (b) Find $\angle q$.

Answer: (b) _____ [2]

7. There were some men and women at a concert. 24 women left and as a result, the percentage of men at the concert increased from 50% to 70%. How many people were at the concert at first?

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space.

Answer: _____ [3]

8. The number of 50-cent coins to the number of 20-cent coins that Liam kept in a box is in the ratio 7 : 4. Each day, he took out \$1 worth of 50-cent coins and replaced them with \$1 worth of 20-cent coins. After 12 days, he had an equal number of 20-cent coins and 50-cent coins in his box. How many 50-cent coins were left in the box after 12 days?

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space.

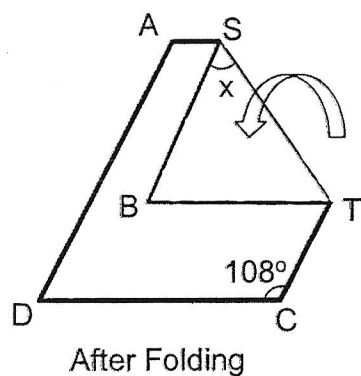
Answer: _____ [3]

9. Sara and Maddy had an equal amount of money at first. Sara received \$60 from her aunt and Maddy spent \$332. Then Maddy had $\frac{1}{9}$ of what Sara had. How much in total did the two of them have in the end?

Answer: _____ [3]

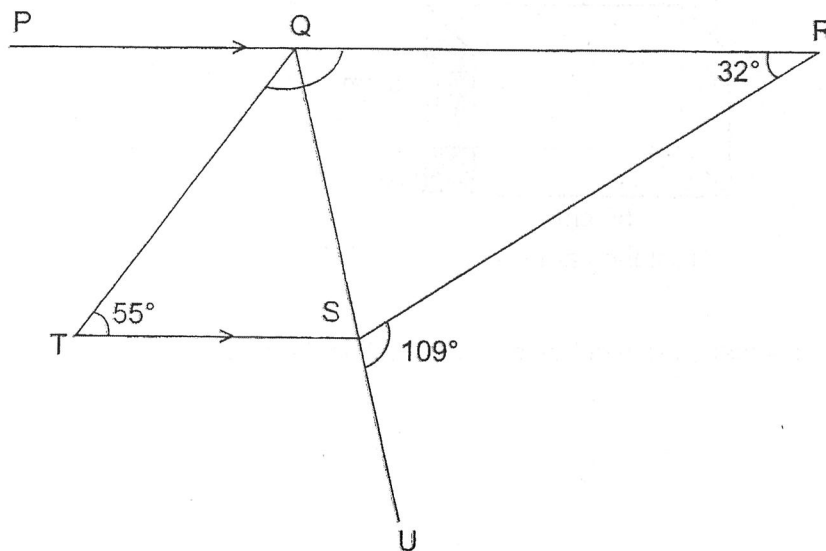
10. ABCD is a piece of paper in the shape of a parallelogram. It is folded along line ST as shown below, where $SB = BT$. Find $\angle x$.

Do not write in this space.



Answer: _____ [3]

11. PQR and QSU are straight lines.



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write in
this
space.

(a) Find $\angle TQR$.

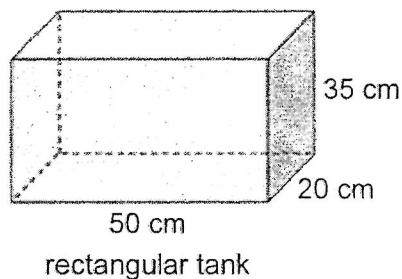
Answer: (a) _____ [1]

(b) Find $\angle TSU$.

Answer: (b) _____ [2]

12. Meihua has some 2-cm cubes. She packs the cubes in the rectangular tank shown below.

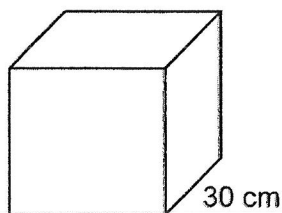
Do not write in this space.



- (a) At most, how many 2-cm cubes can she pack in the tank?

Answer: (a) _____ [2]

- (b) Meihua removed all the cubes and filled the rectangular tank with water to the brim. The water from the rectangular tank was then poured into a cubical container of sides 30 cm to its brim. How many litres of water was left in the rectangular tank?

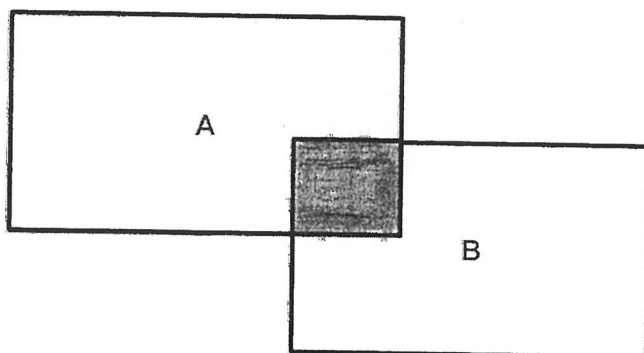


cubical container

Answer: (b) _____ [2]



13. The figure below shows 2 overlapping rectangles, A and B. The ratio of the area of rectangle A to the area of rectangle B is 10 : 9. 20% of rectangle A is shaded. The total unshaded area of rectangles A and B is 450 cm². What is the area of the shaded part?



Do not write in this space.

Answer: _____ [4]

10

SCORE
(Go on to the next page)

14. Joey and Peter bought some cupcakes. Each of them spent \$18. Joey used a voucher that gave her a 20% discount and she got 3 cupcakes more than Peter.
- (a) How many cupcakes did Joey get?
- (b) Find the discount given for each cupcake.

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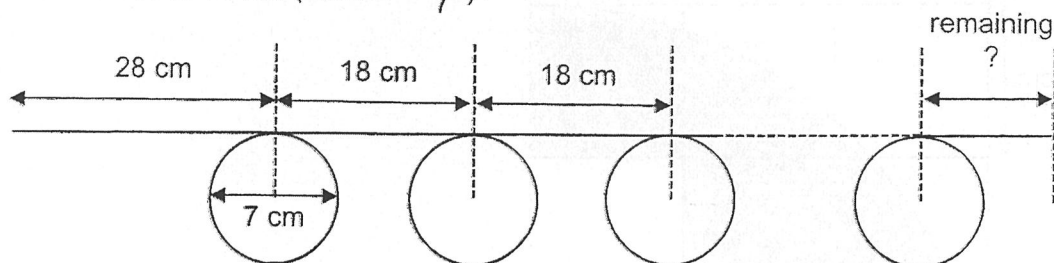
Answer: (a) _____ [2]

(b) _____ [2]

--

15. Mr Yip has 5 m of wire. He bends the wire to form as many identical circles as possible at an equal distance apart in the pattern as shown below. The diameter of each circle is 7 cm. The distance from the centre of one circle to the centre of the next circle is 18 cm. (Take $\pi = \frac{22}{7}$)

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(a) What is the length of the remaining wire?

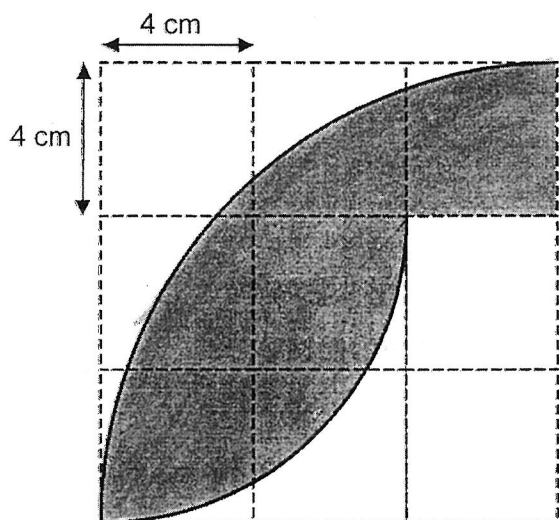
Answer: (a) _____ [4]

(b) How many circles did he form?

Answer: (b) _____ [1]

16. The figure below shows 2 quarter circles of 2 different sizes on a square grid. The side of each small square is 4 cm. Find the area of the shaded part. (Taking $\pi = 3.14$)

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Answer: _____ [5]

17. Study the pattern below.

Figure 1

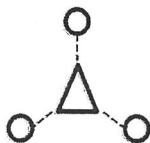


Figure 2

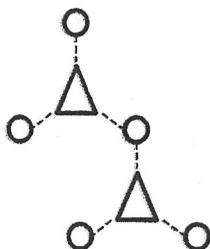
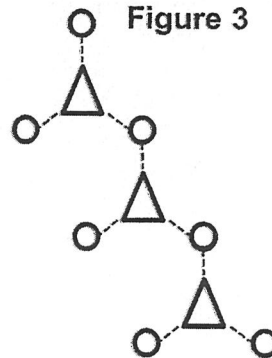


Figure 3



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space.

Figure number	Number of dotted lines	Number of circles	Number of triangles
1	3	3	1
2	6	5	2
3	9	7	3
4	12	9	4
5	a(i)	a(ii)	5

- (a) Complete the table for a(i) and a(ii).

[1]

- (b) Which figure contains 114 dotted lines?

Answer: (b) _____ [2]

- (c) A figure has 51 triangles. How many circles are there in this figure?

Answer: (c) _____ [2]

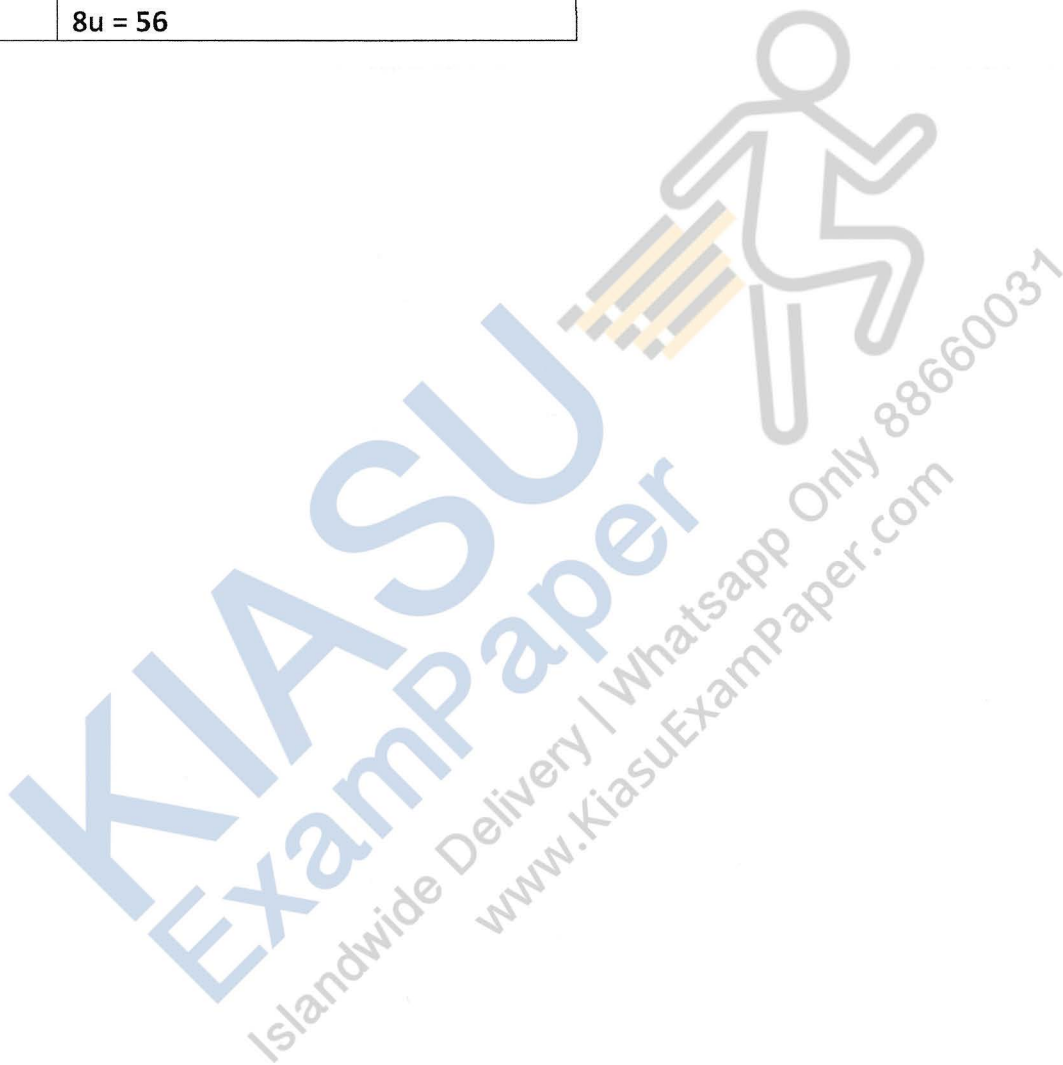
End of Paper

YEAR : 2023
 LEVEL : PRIMARY 6
 SCHOOL : MARIS STELLA HIGH SCHOOL (PRIMARY)
 SUBJECT : MATHEMATICS
 TERM. : TERM 1 WEIGHTED ASSESSMENT

TERM 1 WEIGHTED ASSESSMENT

Q1	(a) 12 (b) 1, 5	Q2	$3000 \div 4 = 750\text{ml}$ $= 0.75\text{l}$
Q3	$100\% \rightarrow \$1255$ $1\% \rightarrow \$12.55$ $8\% \rightarrow \$100.40$	Q4	$D = 5u$ $G = 6u$ $\text{Total} = D + G$ $G = 6u = 120\text{cm}$ $1u = 20\text{cm}$ $11u : 220\text{cm}$
Q5	$\text{Total} = M + A + G$ $= 2u + 3u + 4u$ $= 9u$ $= 162$ $1u = 18$ $G = 4u$ $= 72$	Q6	(a) $25\,999 \approx 26\,000$ (b) (i) 3456 (ii) 5643
Q7	$100\% \rightarrow \$1260$ $1\% \rightarrow \$12.60$ $0.5\% \rightarrow \$6.30$ $2.5\% \rightarrow \$31.50$ $\$1260 + \$31.50 = \$1291.50$	Q8	Gaps between 2 nd and 4 th = 2gaps $= 3.6\text{m}$ $1 \text{ gap} = 1.8\text{m}$ $27 \div 1.8 = 15 \text{ gaps}$ $15 + 1 = 16$
Q9	$\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$ $\frac{1}{16} \times 5 = \frac{5}{16}$ $\frac{16}{16} - \frac{5}{16} = \frac{11}{16}$ $\frac{1}{16} = \$200$ $\text{Total} = \frac{16}{16} = \3200	Q10	$\frac{18}{100} = \frac{9}{50}$ $1\text{un} = 100\% - 18\% = 82\%$ $2\text{un} = 164\%$ Shaded : Unshaded $18 : 164 + 18$ $18 : 182$ $9 : 91$
Q11	$0.8 \times 3 = 2.4$ $30 + 2.4 = 32.4$ $1.4 - 0.8 = 0.6$ $32.4 \div 0.6 = 54$	Q12	(a) $90\% \times 5 = 4.50$ (b) $75\% \times 10 = 7.50$ $36 \div 7.5 = 4\text{R}6$ $4 \times 2 = 8$ $8 + 1 = 9$
Q13	$7N + 4P = 14P + 4P$ $= 18p$ $1N = 2P$ $7N = 14P$ $27P + 4P = 31P$	Q14	$25\% \rightarrow \frac{1}{4}$ $35 \rightarrow \frac{7}{20}$ $720 \div 3 = 240$ $240 \div 8 = 30$ $E = 3u = 90$ $90 - 30 = 60$

Q15	<p>(a) $3u = 540$ $1u = 180$ $2u = 360$</p> <p>(b) Cost of A = 360 Cost of P = $180 - 5u$ $1u$ of A = 120 $1u$ of P = 236 $3 \times 5 = 15$</p>	Q16	<p>$\frac{3}{10}$ of B = $\frac{3}{12}$ of G $836 \div 22u = 38$ $38 \times 12 = 456$</p>
Q17	<p>$2u = 14$ $1u = 7$ $8u = 56$</p>		



YEAR : 2023
 LEVEL : PRIMARY 6
 SCHOOL : MARIS STELLA HIGH SCHOOL
 SUBJECT : MATHEMATICS
 TERM. : TERM 2 WEIGHTED ASSESSMENT

Q1	(a) 2035 (b) 5320	Q2	<p style="text-align: center;">Garden</p> <p>(b) F</p>		
Q3	$\frac{2}{7}$ of total salary = 320 $\frac{1}{7}$ of total salary = 160 $\frac{7}{7}$ of total salary = \$1120	Q4	(a) 10.8cm (b) 16		
Q5	$\frac{1}{2} \times 12 \times 10 = 60\text{cm}^2$	Q6	(a) $65 + 65 = 130^\circ$ (b) $\frac{360 - 130 - 130}{2} = 50^\circ$		
Q7	<table><tr><td>M : W 15u : 35u 21p : 21p</td><td>M : W 7p : 3p</td></tr></table> <p>15u = 21p 35u - 168 = 21p 35u - 15u = 20u 20u = 168 10u = 84</p>	M : W 15u : 35u 21p : 21p	M : W 7p : 3p	Q8	$7 \times 12 = 84$ $3u = 84$ $1u = 28$ $7u = 196$ $196 - 28 = 172$
M : W 15u : 35u 21p : 21p	M : W 7p : 3p				
Q9	$8u = 332 + 60$ $= 392$ $1u = 49$ $10u = \$490$	Q10	$180 - 108 = 72$ $X = \frac{180 - 72}{2}$ $= 54^\circ$		
Q11	(a) $189 - 32 = 148$ $360 - 55 - 32 - 148 = 125$ (b) $360 - 148 - 109 = 103^\circ$	Q12	(a) $50 \div 2 = 25$ $20 \div 2 = 10$ $35 \div 2 = 17\text{R}1$ $25 \times 10 \times 17 = 4250$ (b) Capacity of rectangle tank = $50 \times 20 \times 35 = 35\,000$ $30 \times 30 \times 30 = 27\,000$ $35\,000 - 27\,000 = 8000$ $8000 \div 1000 = 8\text{L}$		

Q13	$A + C : B + C$ $10 : 9$ $\frac{1}{2} \times 10 = 2$ $A : B : C$ $8 : 7 : 2$ $8u + 7u = 15u$ $15u = 450$ $1u = 30$ $2u = 30 \times 2$ $= 60\text{cm}^2$	Q14	$\frac{80}{100} \times 18 = 14.40$ $18 - 14.40 = 3.60$ Cost of 3 cupcakes = \$3.60 Cost of 1 cupcake = 1.2 a) $10 \div 1.2 = \underline{15}$ $15 - 3 = 12$ $\frac{18}{12} = 1.50$ $\frac{18}{15} = 1.20$ $1.50 - 1.20 = \underline{\$0.30}$ (b)
Q15	a) Circumference = πD $= \frac{22}{7} \times 7$ $= 22\text{cm}$ $500 - 28 = 472$ 1 set = $22\text{cm} + 18\text{cm} = 40\text{cm}$ As gaps are 1 less than circle, $472 + 18 = 490$ $\frac{490}{40} = 12\text{R}10$ Ans: 10cm b) 12	Q16	Area of big quadrant = $\frac{1}{4} \times \pi \times r \times r$ $= \frac{1}{4} \times 3.14 \times 12 \times 12$ $= 113.04$ Area of small quadrant = $\frac{1}{4} \times \pi \times r \times r$ $= \frac{1}{4} \times 3.14 \times 8 \times 8$ Area of small square = $8 \times 8 = 64$ Area of A = $64 - 50.24$ $= 13.76$ Area of whole square = 12×12 $= 144$ Area of B = $144 - 113.04$ $= 30.96$ Area of 2 small squares = $(4 \times 4) \times 2$ $= 32$ Area of shaded part = $144 - (32 + 30.96 + 13.76)$ $= 67.28\text{cm}^2$
Q17	(a) (i) 15 (ii) 11 (b) $114 \div 3 = 38$ (c) $(51 \times 2) + 1 = \underline{103}$		

END

Pg 4



NANYANG PRIMARY SCHOOL

**MID-YEAR PRACTICE
2023**

PRIMARY 6

**MATHEMATICS
PAPER 1
(BOOKLET A)**

Total Duration for Booklets A and B: 1 hour

Additional materials: Optical Answer Sheet (OAS)

INSTRUCTIONS TO PUPILS

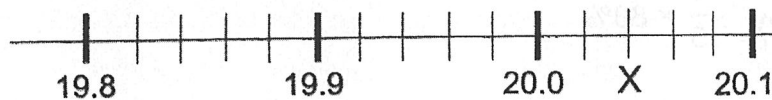
1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Shade your answers in the Optical Answer Sheet (OAS) provided.
5. The use of calculators is **NOT** allowed.

Name: _____ ()

Class: Primary 6 ()

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet.
(20 marks)

- 1 In the number line below, what is the value of X?



- (1) 20.4
- (2) 20.2
- (3) 20.04
- (4) 20.02

- 2 Find the value of $\frac{5}{6} \div \frac{1}{4}$.

- (1) $\frac{10}{3}$
- (2) $\frac{5}{24}$
- (3) $\frac{3}{10}$
- (4) $\frac{24}{5}$

- 3 Joyce baked some cookies. She gave 80% of the cookies to Zac. Zac ate 20% of the cookies he received from Joyce. Which one of the following shows the percentage of total cookies that Zac ate?

(1) $\frac{1}{5} \times 20\%$

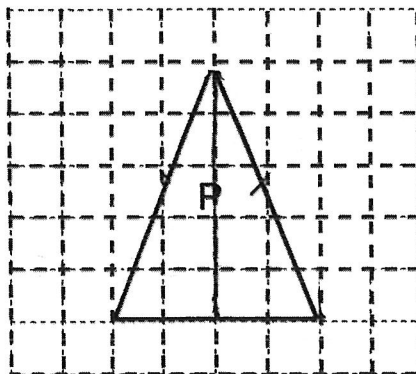
$70\% \times 80\%$

(2) $\frac{1}{5} \times 80\%$

(3) $\frac{4}{5} \times 80\%$

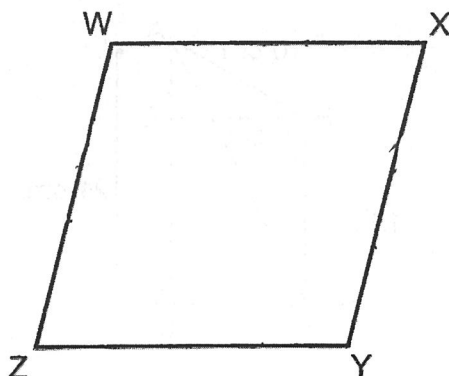
(4) $\frac{4}{5} \times 100\%$

- 4 The square grid below shows Triangle P. What type of triangle is Triangle P?



- (1) Obtuse-angled triangle
(2) Right-angled triangle
(3) Equilateral triangle
(4) Isosceles triangle

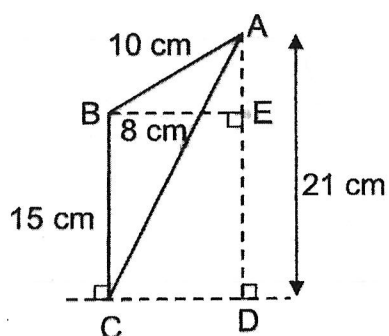
- 5 In the figure below, WXYZ is a rhombus.



Which one of the following is false?

- (1) $WX \parallel ZY$
- (2) $\angle WZY + \angle XYZ = 180^\circ$
- (3) $\angle XYZ = \angle XWZ$
- (4) $\angle WZY = \angle ZWX$

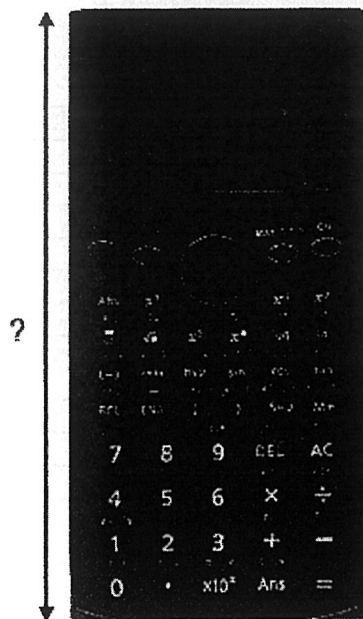
- 6 ABC is a triangle with $AB = 10$ cm and $BC = 15$ cm. $BE = 8$ cm and $AD = 21$ cm. Find the area of triangle ABC.



- (1) 40 cm^2
- (2) 60 cm^2
- (3) 75 cm^2
- (4) 84 cm^2
- 7 What is the area of a circle with diameter 60 cm?
(Take $\pi = 3.14$)

- (1) 94.2 cm^2
- (2) 188.4 cm^2
- (3) 2826 cm^2
- (4) $11\,304 \text{ cm}^2$

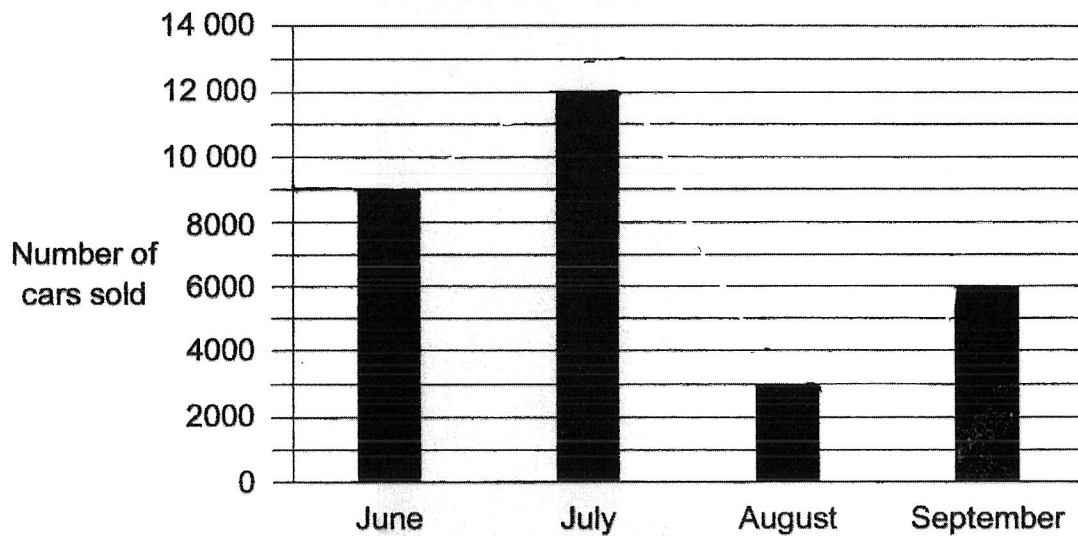
- 8 Which of the following is likely to be the length of an approved scientific calculator for PSLE?



- (1) 0.018 m
- (2) 0.18 m
- (3) 1.8 m
- (4) 18 m

Use the information below to answer questions 9 and 10.

The bar graph below shows the number of cars sold from June to September.



9 In which month was the number of cars sold half as many as the number of cars sold in September?

- (1) June
- (2) July
- (3) August
- (4) September

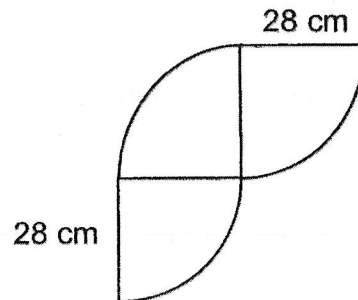
10 Which one of the following statements is true?

- (1) The number of cars sold in June was 8500.
- (2) The number of cars sold in July is $\frac{3}{4}$ the number of cars sold in June.
- (3) The increase in the number of cars sold from August to September was 9000.
- (4) The total number of cars sold in June and August is the same as the number of cars sold in July.

11 Last month, a florist sold 800 roses. This month, she sold 1000 roses. What was the percentage increase in the number of roses sold?

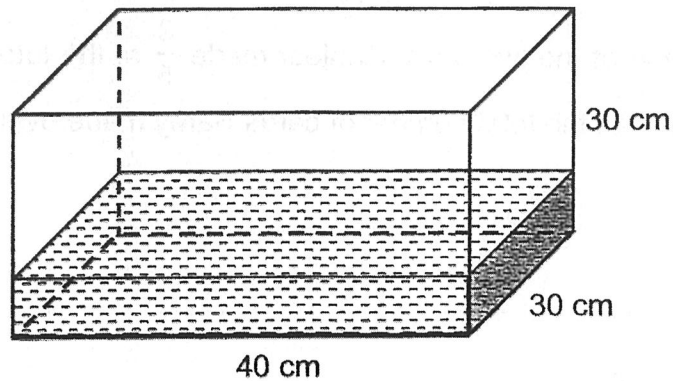
- (1) 20%
- (2) 25%
- (3) 80%
- (4) 200%

- 12 The figure below is made up of 3 identical quarter circles of radius 28 cm. Find its perimeter. (Take $\pi = \frac{22}{7}$)



- (1) 132 cm
- (2) 176 cm
- (3) 188 cm
- (4) 232 cm
- 13 A lollipop cost \$0.70. There were 80 lollipops in a box. Janie bought 8 such boxes of lollipops for her class party. How much did she spend on the lollipops?
- (1) \$408
- (2) \$428
- (3) \$448
- (4) \$560

- 14 At first, a rectangular tank measuring 40 cm by 30 cm by 30 cm contained some water as shown below.



After Melvin poured 2400 ml of water into the tank, the tank became $\frac{2}{3}$ -filled with water. How much water was there in the tank at first?

- (1) 21 600 cm³
- (2) 24 000 cm³
- (3) 26 400 cm³
- (4) 36 000 cm³

- 15 Ranjeet and Samy made some birthday cards over two days. On Saturday, Ranjeet made 29 more cards than Samy. On Sunday, Ranjeet made another 30 cards and Samy made another 25 cards. At the end of the two days, Ranjeet made $\frac{3}{5}$ of the total number of cards. What was the total number of cards Samy made over the two days?

- (1) 34
- (2) 68
- (3) 102
- (4) 170



NANYANG PRIMARY SCHOOL

**MID-YEAR PRACTICE
2023**

PRIMARY 6

**MATHEMATICS
PAPER 1
(BOOKLET B)**

Total Duration for Booklets A and B: 1 hour

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Write your answers in this booklet.
5. The use of calculators is **NOT** allowed.

Name: _____ ()

Class: Primary 6 ()

Booklet B

/ 25

Questions **16** to **20** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

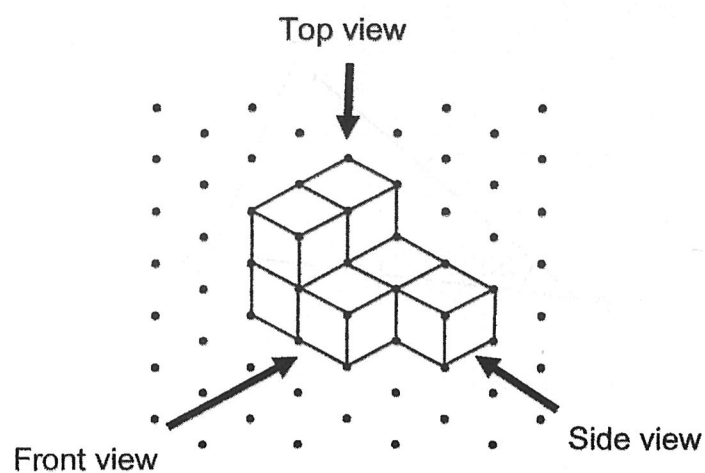
16 Express $3\frac{1}{4}$ as a decimal.

Ans: _____

17 The volume of a cube is 125 cm^3 . Find the length of one edge of the cube.

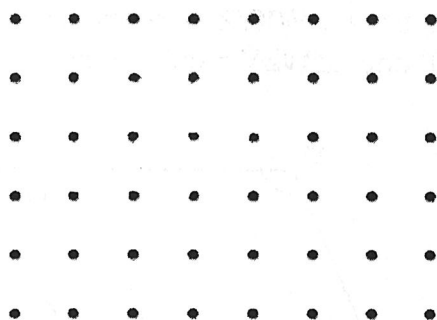
Ans: _____ cm

- 18 John stacked 7 unit cubes and glued them together to form the solid below.

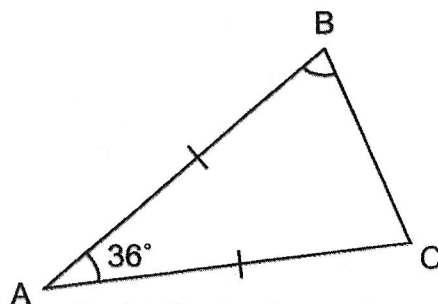


Draw the top view of the solid on the grid below.

Top View

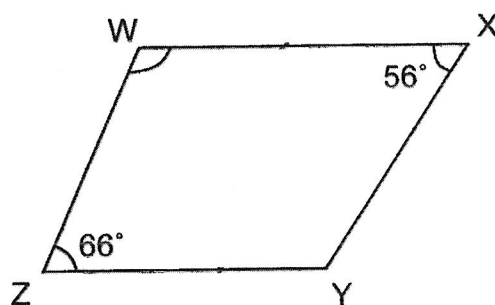


- 19 In the figure below, ABC is an isosceles triangle. $AB = AC$.
 $\angle BAC = 36^\circ$. Find $\angle ABC$.



Ans: _____^o

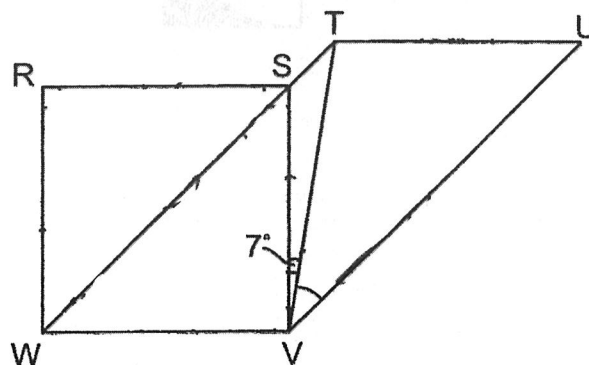
- 20 In the figure below, $WXYZ$ is a trapezium and WX is parallel to ZY .
 $\angle WXY = 56^\circ$ and $\angle WZY = 66^\circ$. Find $\angle XWZ$.



Ans: _____^o

Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

- 21 In the figure below, RSVW is a square and WTUV is a parallelogram. WST is a straight line. $\angle TVS = 7^\circ$. Find $\angle TVU$.

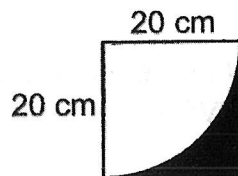


Ans: _____ °

- 22 Find the circumference of a circle of diameter 28 m. (Take $\pi = \frac{22}{7}$)

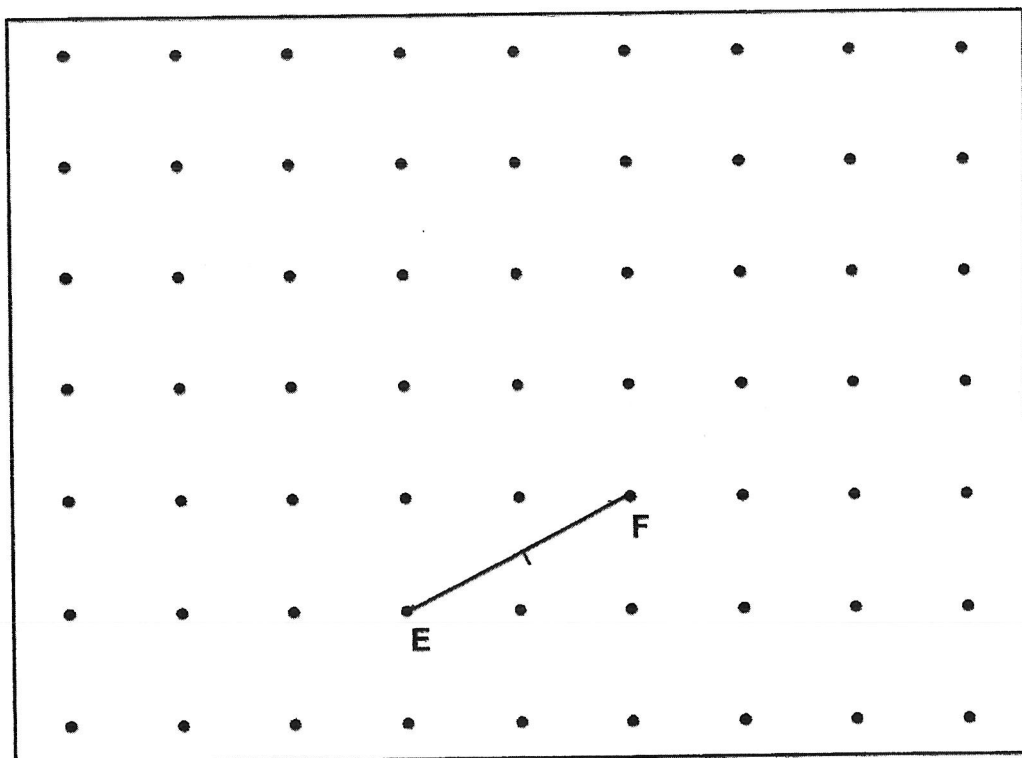
Ans: _____ m

- 23 The figure below shows a square and a quarter circle. The length of the square is 20 cm. Find the area of the shaded part. Leave your answer in terms of π .



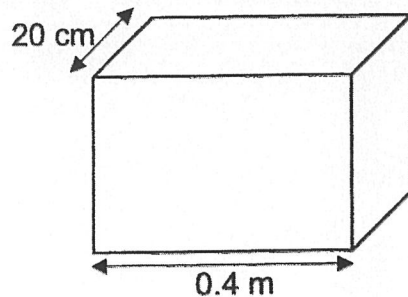
Ans: _____ cm^2

- 24 A straight line EF is drawn on a square grid inside a box.



G is one of the dots inside the box. Draw two lines FG and EG to complete triangle EFG with $\angle EFG = 90^\circ$ and $EF = FG$.

- 25 A cuboid is 0.4 m long and 20 cm wide. It has a volume of 20 000 cm³. Find the height of the cuboid.



Ans: _____ cm

- 26 Two numbers add up to 364. One of the numbers is a 2-digit number and the other is a 3-digit number. What is the smallest possible difference between the two numbers?

Ans: _____

27 Use all the digits 7, 0, 4 and 5 to form

(a) the smallest multiple of 10

Ans: (a) _____

(b) the even number closest to 5000

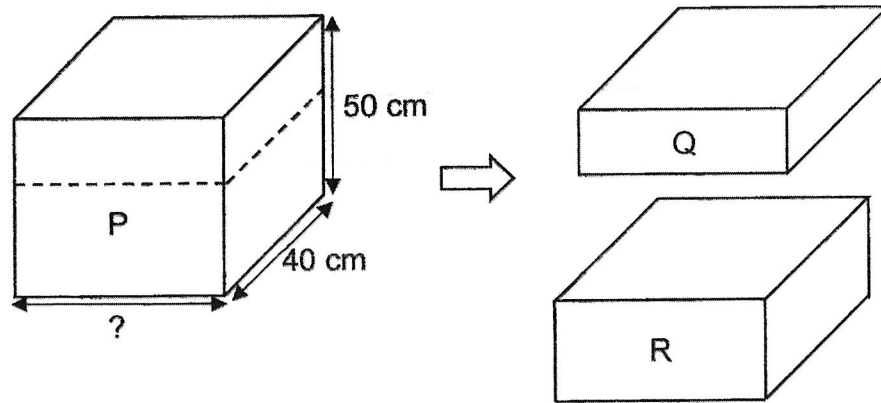
Ans: (b) _____

- 28 Shanice had a bottle of shampoo. She used an equal amount of shampoo each day. At the end of the 7th day, $\frac{4}{5}$ of the bottle was left. At the end of the 15th day, the amount of shampoo left was 280 ml. What was the amount of shampoo in the bottle at first?



Ans: _____ ml

- 29 A rectangular block P was cut along the dotted line into two smaller rectangular blocks Q and R as shown below. The volume of Q was $\frac{2}{3}$ the volume of R. The difference in volume between Q and R was 12 000 cm³. Find the unknown edge of block P.



Ans: _____ cm

- 30 Devi collected $\frac{5}{12}$ as many foreign coins as Haminah. Haminah collected $\frac{6}{7}$ as many foreign coins as Liling. What was the ratio of the number of foreign coins Devi collected to the number of foreign coins Liling collected?

Ans: _____

End of Paper



NANYANG PRIMARY SCHOOL

**MID-YEAR PRACTICE
2023**

**PRIMARY 6
MATHEMATICS
PAPER 2**

Duration: 1 hour 30 minutes

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Write your answers in this booklet.
5. The use of an approved calculator is allowed.

Name: _____ ()

Class: Primary 6 ()

Booklet A	/ 20
Booklet B	/ 25
Paper 2	/ 55
Total	/ 100

Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

- 1 The table below shows the number of storybooks read by each student in a class. Part of the table is covered by an ink blot. There were 20 students who read less than 3 storybooks. There were twice as many students who read 3 storybooks as those who read 5 storybooks.

Number of storybooks	1	2	3	4	5
Number of students	9			3	4

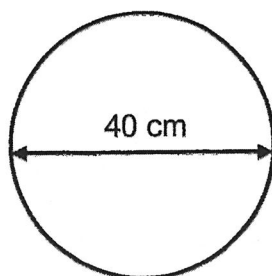
- (a) How many students read 2 storybooks?

Ans: (a) _____

- (b) How many students were there in the class?

Ans: (b) _____

- 2 A wheel of diameter 40 cm made 10 complete turns. Find the distance covered. (Take $\pi = 3.14$)



Ans: _____ cm

- 3 The price of a pair of shoes was \$80 before discount. Richard bought the pair of shoes at a discount of 15% during a sale. How much did he pay for the pair of shoes?

Ans: \$ _____

- 4 A machine prints 390 posters in 13 minutes. At this rate, how long does it take to print 2250 posters?

Ans: _____ min

- 5 The average of 6 consecutive whole numbers is 35.5. Find the smallest number.

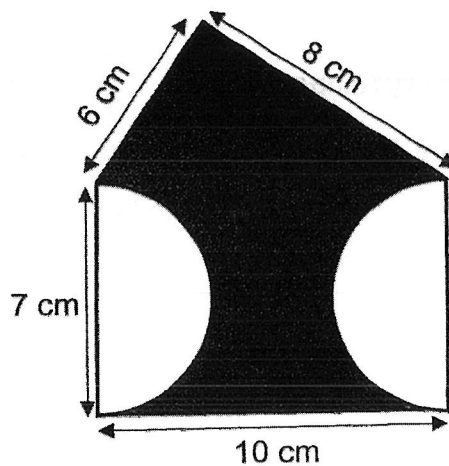
Ans: _____

For questions 6 to 17, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question. (45 marks)

- 6 There are 12 fewer workers in factory A than factory B. $\frac{1}{8}$ of the workers in factory A are male. There are 36 more female workers than male workers in factory A. How many workers are there in factory B?

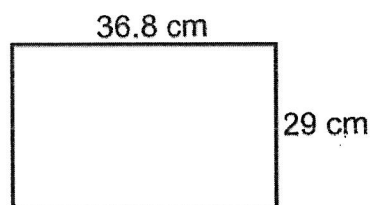
Ans: _____ [3]

- 7 The figure below is made up of a right-angled triangle, a rectangle and 2 semicircles. Find the total area of the shaded parts. (Take $\pi = 3.14$)



Ans: _____ [3]

- 8 Joe had a rectangular piece of paper, 36.8 cm by 29 cm, as shown below. He cut out as many squares as possible from the paper. The side of each square was 5 cm. At most, how many squares did Joe cut out?



Ans: _____ [3]

- 9 Pedro had a 700-cm long rope. He cut it into 3 pieces, A, B and C. The length of rope A was divisible by 3 and 7. The length of rope B was 4 times the length of rope A. The total length of rope A and rope B was less than 450 cm. The length of rope C was longer than the length of rope A but shorter than the length of rope B.

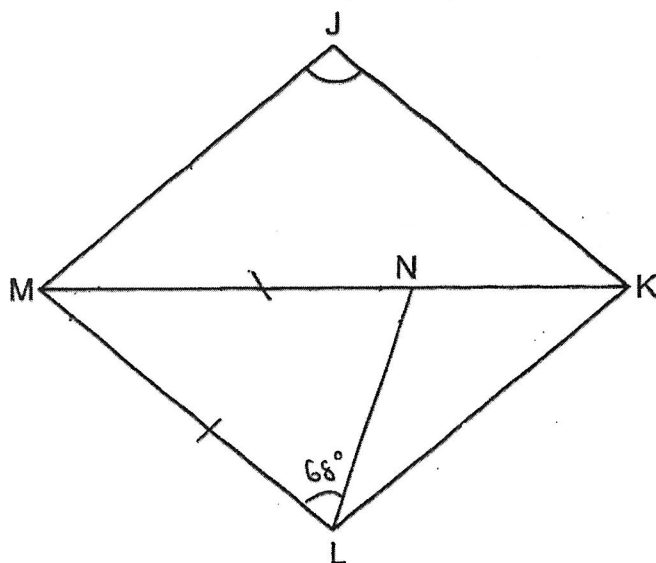
(a) What was the length of rope C?

Ans: (a) _____ [2]

(b) What was the total length of rope A and rope B?

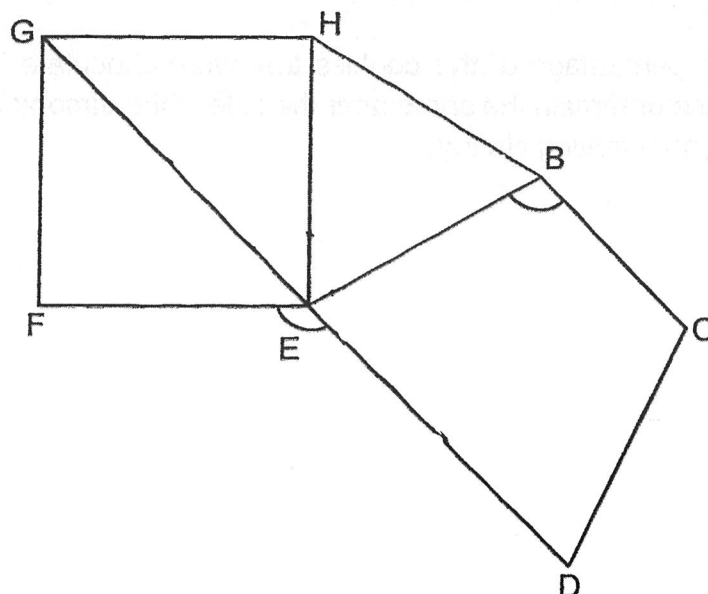
Ans: (b) _____ [1]

- 10 In the figure below, JKLM is a rhombus. MNK is a straight line and $MN = ML$. $\angle MNL$ is 24° more than $\angle LMN$. Find $\angle MJK$.



Ans: _____ [3]

- 11 In the figure below, BCDE is a trapezium. BC is parallel to GED. BEH is an equilateral triangle and EFGH is a square.



(a) Find $\angle DEF$.

Ans: (a) _____ [2]

(b) Find $\angle EBC$.

Ans: (b) _____ [2]

- 12 Mrs Menon baked some cookies. 60% of the cookies were almond cookies and the rest were chocolate cookies. She then sold half of her almond cookies and had 78 almond cookies left.

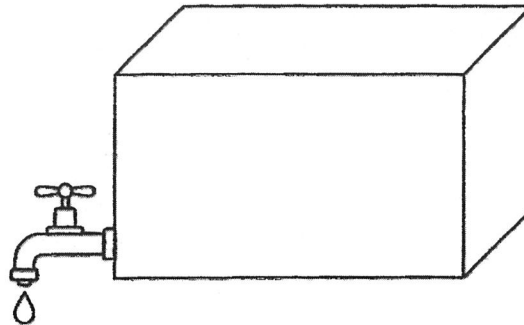
- (a) Did the percentage of the cookies that were chocolate increase, decrease or remain the same after the sale of the almond cookies? Show your working clearly.

Ans: (a) _____ [1]

- (b) How many cookies did Mrs Menon bake?

Ans: (b) _____ [3]

- 13 A rectangular tank with a base area of 3500 cm^2 and a height of 80 cm was $\frac{1}{4}$ -filled with water at first. At 8 a.m., a tap was turned on and water was drained from the tank at the rate of 4 litres per minute. At 8.06 a.m., the tap was turned off.



- (a) How much water was drained from the tank?

Ans: (a) _____ [1]

- (b) After the tap was turned off, how much more water was needed to fill the tank completely?

Ans: (b) _____ [3]

- 14 A pencil and an eraser cost \$1.05. The pencil and a ruler cost \$0.85. Bernice paid \$6.90 for 8 such pencils and 5 such erasers. Chandra paid \$3.30 for some rulers.

(a) What was the cost of one such eraser?

Ans: (a) _____ [2]

(b) How many such rulers did Chandra buy?

Ans: (b) _____ [2]

- 15 Karl had clips of four different colours. $\frac{1}{8}$ of the clips were white and $\frac{2}{7}$ of the remaining clips were red. He had an equal number of blue clips and yellow clips. Karl had 35 blue clips.

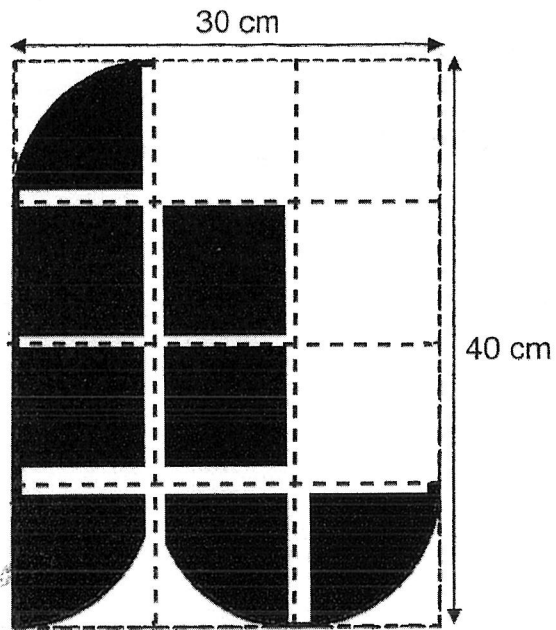
(a) How many red clips did he have?

Ans: (a) _____ [2]

- (b) Karl packed all the blue clips into small, medium, and large boxes. He filled each small box with 2 clips, each medium box with 3 clips and each large box with 6 clips. All the boxes were full and there was no clips left over. What was the least number of boxes used by Karl?

Ans: (b) _____ [2]

- 16 The figure is drawn on a rectangular piece of paper 30 cm by 40 cm as shown below. Its outline consists of 4 identical quarter circles and 5 straight lines. (Take $\pi = 3.14$)



- (a) Find the perimeter of the figure.

Ans: (a) _____ [2]

- (b) Find the area of the shaded figure.

Ans: (b) _____ [3]

- 17 Two pouches, Y and Z, contained some gold tokens and silver tokens at first. In Pouch Y, the ratio of the number of gold tokens to the number of silver tokens was 3 : 1. In Pouch Z, the ratio of the number of gold tokens to the number of silver tokens was 1 : 4. Pouch Z had 5 times as many tokens as Pouch Y.

- (a) What was the ratio of the number of gold tokens in Pouch Y to the number of silver tokens in Pouch Z?

Ans: (a) _____ [1]

- (b) After 24 gold tokens and 24 silver tokens were transferred from Pouch Z to Pouch Y, the ratio of the number of gold tokens to the number of silver tokens in Pouch Y became 9 : 5. What was the total number of tokens in Pouch Y in the end?

Ans: (b) _____ [2]

- (c) What was the total number of tokens in both pouches, Y and Z, at first?

Ans: (c) _____ [2]

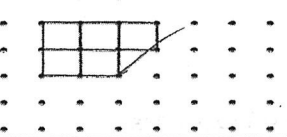
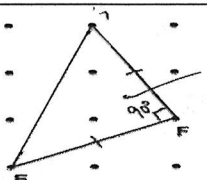
End of Paper

YEAR : 2023
 LEVEL : PRIMARY 6
 SCHOOL : NANYANG PRIMARY SCHOOL
 SUBJECT : MATHEMATICS
 TERM. : MID-YEAR PRACTICE

(BOOKLET A)

Q1	3	Q2	1	Q3	2	Q4	4	Q5	4
Q6	2	Q7	3	Q8	2	Q9	3	Q10	4
Q11	2	Q12	3	Q13	3	Q14	1	Q15	2

(BOOKLET B)

Q16	3.25	Q17	$\sqrt[3]{125} = 5\text{cm}$
Q18		Q19	$180 - 36 = 144$ $144 \div 2 = 72^\circ$
Q20	$180 - 66 = 114^\circ$	Q21	$180 - 90 = 90$ $90 \div 2 = 45$ $45 + 97 = 142$ $180 - 142 = 38^\circ$
Q22	$28\text{m} \div 2 = 14$ $2 \times \frac{22}{7} \times 14 = 88\text{m}$	Q23	$\frac{1}{4} \times \pi \times 20^2 = 100\pi \text{cm}^2$ $20\text{cm} \times 20\text{cm} = 400\text{cm}^2$ $(400 - 100\pi) \text{cm}^2$
Q24		Q25	$20\text{cm} \times 0.4\text{m} = 800\text{cm}^2$ $20\,000\text{cm}^3 \div 800\text{cm}^2 = 25\text{cm}$
Q26	Highest possible 2 digit no. is 99 $364 - 99 = 265$ $265 - 99 = 166$	Q27	a) 4570 b) 5074
Q28	Every 7 days $\rightarrow \frac{5}{5} - \frac{4}{5} = \frac{1}{5}$ 1 day $\rightarrow \frac{1}{5} \div 7 = \frac{1}{35}$ By day 15 : $\frac{1}{35} \times 15 = \frac{15}{35}$ $\frac{35}{35} - \frac{15}{35} = \frac{20}{35}$ $\frac{20}{35} = 280\text{ml}$ $\frac{1}{35} \rightarrow 14\text{ml}$ $\frac{1}{35} \rightarrow 14\text{ml} \times 35$ 490ml	Q29	2 units + 3 units = 5 units 30cm = 5 units 1 unit = 10cm 3 - 2 = 1 1 $\rightarrow 12\,000\text{cm}^3$ $12\,000\text{cm}^3 \div 40 \div 10 = 30\text{cm}$

Q30	D : H : L 5 : 12 6 : 7 5 : 12 : 7 Ans: 5 : 14
-----	---

PAPER 2

Q1	(a) $20 - 9 = 11$ (b) $4 \times 2 = 8$ $9 + 11 + 8 + 3 + 4 = 35$	Q2	$2 \times 3.14 \times (40 \div 2) = 125.6\text{cm}$ $125.6 \times 10 = 1256\text{cm}$
Q3	$100\% - 15\% = 85\%$ $85\% \rightarrow \$68$ $1\% \rightarrow \$0.80$ $100\% \rightarrow \$80$ $80 - 12 = \$68$	Q4	$390 \div 13 = 30$ $2250 \div 30 = 75\text{min}$
Q5	$83 + 34 + 35 + 36 + 37 + 38 = 213$ $6 \times 35.5 = 213$ Ans : 33	Q6	$7 - 1 = 6$ $6u : 36$ $1u : 6$ $8u : 48$ $48 + 12 = 60 \text{ workers}$
Q7	Diameter $\rightarrow 7\text{cm}$ Radius $\rightarrow 7 \div 2 = 3.5$ $1 \times 3.14 \times (7 \div 2) = 38.465\text{cm}^3$ $10 \times 7 = 70\text{cm}^2$ $\frac{1}{2} \times 6 \times 8 = 24\text{cm}^2$ $70\text{cm}^2 + 24\text{cm}^2 = 94\text{cm}^2$ $94\text{cm}^2 - 38.465\text{cm}^2 = 55.535 \text{ cm}^2$	Q8	$36.8 \div 5 = 7\text{R}1.8$ $29 \div 5 = 5\text{R}4$ $7 \times 5 = 35$
Q9	(a) $3 \times 7 = 21$ Length of Rope A is a multiple of 21 $21 \times 4 = 84$ $84 + 21 = 105$ $450 \div 105 = 4\text{R}30$ $105 \times 4 = 420$ $700 - 420 = 280\text{cm}$ (b) $700\text{cm} - 280\text{cm} = 420\text{cm}$	Q10	$MNL - LMN = 24$ $24 \times 2 = 48$ $180 - 48 = 132$ $132 \div 3 = 44$ $LMN = 44$ $180 - 44 - 44 = 92^\circ$
Q11	(a) $90 \div 2 = 45$ $380 - 45 - 45 - 60 - 75 = 135^\circ$ (b) $45 + 45 + 60 + 135 = 285$ $360 - 285 = 75$ $180 - 75 = 105^\circ$	Q12	(a) At first $\frac{\text{Chocolate}}{\text{Total}} \rightarrow \frac{40}{100} = 40\%$ In the end $\frac{\text{Chocolate}}{\text{Total}} \rightarrow \frac{40}{70} = 57.1$ Ans: Increase (b) $30u = 78$ $10u = 26$ $100u = 260$

Q13	(a) 8a.m. \rightarrow 8.06a.m. $4l / \text{min} \times 6 = 24l$ (b) $80\text{cm} \frac{1}{4} = 20\text{cm}$ $3500 \times 20 \text{ cm} = 70\,000\text{cm}^3$ $70\,000 - 24\,000 = 46\,000\text{cm}^3$ $80\text{cm} \times 3500 = 280\,000\text{cm}^3$ $280\,000 - 46\,000 = 234l$	Q14	(a) 1 Pencil + 1 eraser = \$1.05 8 Pencil + 5 eraser = \$6.90 5 Pencils + 5 erasers = \$5.25 $\$6.90 \div \$5.25 = \$1.65$ 3 Pencils = \$1.65 1 Pencil = \$0.55 (b) $\$0.85 - \$0.55 = \$0.30$ $\$3.30 \div \$0.30 = 11$															
Q15	(a) $5u : 35$ $1u : 7$ $4u : 28$ (b) $35 \div 6 = 5R5$ 5 clips \rightarrow clips of 1 medium + 1 small = (3 + 2) clips 5 boxes + 1 box + 1 box = 7 boxes	Q16	(a) $\frac{1}{4} + \frac{1}{4} + \frac{1}{2} = 1$ $1 \times 2 \times 3.14 \times 10 = 62.8\text{cm}$ $62.8\text{cm} + (10 \times 8) = 142.8\text{cm}$ (b) $\frac{1}{4} + \frac{1}{4} + \frac{1}{2} = 1$ $1 \times 3.14 \times 10 \times 10 = 314\text{cm}^2$ $10 \times 10 = 100\text{cm}^3$ $100\text{cm}^2 \times 4 = 400$ $400 + 314 = 714\text{cm}^2$															
Q17	<div>(a) In Y,<table><tr><td>Gold</td><td>Silver</td><td>Total</td></tr><tr><td>3</td><td>1</td><td>4</td></tr></table> In Z,<table><tr><td>Gold</td><td>Silver</td><td>Total</td></tr><tr><td>1</td><td>4</td><td>5</td></tr><tr><td>4</td><td>16</td><td>20</td></tr></table> $4 \times 5 = 20$ $20 \div 5 = 4$ Gold Y : Silver Z $3 : 16$ (b) $6u + 24 = 9$ $9u - 6u = 3u$ $3u : 8$ $1u : 8$ $9 + 5 = 14u$ $14u : 112$ (c) $1u : 8$ Total units : $40 + 8 = 48$ Total tokens = 48×8 = 384</div>			Gold	Silver	Total	3	1	4	Gold	Silver	Total	1	4	5	4	16	20
Gold	Silver	Total																
3	1	4																
Gold	Silver	Total																
1	4	5																
4	16	20																

3

END

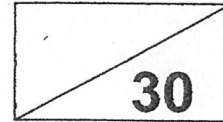
SINGAPORE CHINESE GIRLS' SCHOOL (PRIMARY)
PRIMARY 6 MATHEMATICS
TERM 1 WEIGHTED ASSESSMENT

Name: _____ ()

Date: _____

Class: Primary 6 SY / C / G / SE / P

Duration: 40 minutes

Calculators are not allowed for this assessment.

Parent's Signature: _____

Section A

Questions 1 to 6 carry 1 mark each. Questions 7 and 8 carries 2 marks each.

For each question, four options are given. Choose the correct answer and write its number in the brackets provided. (10 marks)1. Divide $\frac{3}{4}$ by 12.

(1) $\frac{1}{9}$

(2) $\frac{1}{16}$

(3) 9

(4) 16

()

2. Serene has 3 times as much money as Maju. Ting Xi has $\frac{1}{2}$ as much money as Serene. What is the ratio of the amount of money that Maju has to amount of money Ting Xi has to the amount of money Serene has?

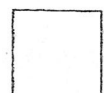
(1) 1 : 6 : 3

(2) 2 : 3 : 6

(3) 3 : 2 : 1

(4) 6 : 1 : 2

().



3. $\frac{4}{5}$ of a bag of flour weighs $\frac{2}{3}$ kg. How much does 2 bags of flour weigh?

(1) $\frac{5}{6}$ kg

(2) $1\frac{1}{15}$ kg

(3) $1\frac{2}{3}$ kg

(4) $5\frac{1}{3}$ kg

()

4. Arrange the following fractions from the smallest to the largest.

$\frac{3}{8}$, $\frac{1}{3}$, $\frac{3}{10}$
--

(1) $\frac{1}{3}$, $\frac{3}{8}$, $\frac{3}{10}$

(2) $\frac{1}{3}$, $\frac{3}{10}$, $\frac{3}{8}$

(3) $\frac{3}{8}$, $\frac{1}{3}$, $\frac{3}{10}$

(4) $\frac{3}{10}$, $\frac{1}{3}$, $\frac{3}{8}$

()

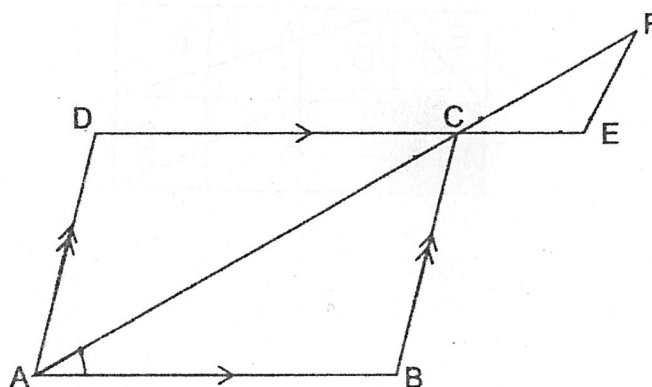
5. The figure below, not drawn to scale, shows a parallelogram ABCD and a triangle CEF. AF and DE are straight lines. Which angle is equal to $\angle CAB$?

(1) $\angle ACB$

(2) $\angle CEF$

(3) $\angle DAC$

(4) $\angle ECF$



()



6. Germaine uses the four letters A, B, C and D to form a pattern. The first 18 letters are shown below. Find the ratio of the number of letter A to the number of letter C for the first 25 letters.

A B A C D D A B A B A C D D A B A B ...

(1) 3 : 1

(2) 7 : 2

(3) 7 : 3

(4) 8 : 3

()

7. Melissa has a ribbon of $\frac{9}{10}$ m in length. She cut it into equal lengths of $\frac{1}{4}$ m long. What is the length of the remaining ribbon?

(1) $\frac{3}{5}$ m

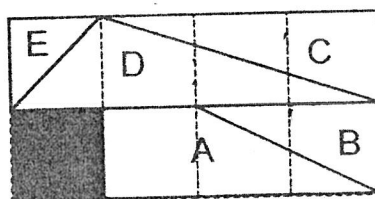
(2) $\frac{3}{20}$ m

(3) $\frac{5}{18}$ m

(4) $\frac{8}{15}$ m

()

8. The figure below is made up of 8 unit squares. Which parts must be shaded so that the figure is $\frac{3}{4}$ shaded?



(1) A, B and D

(2) A, C and D

(3) B, C and D

(4) B, D and E

()



Section B

Questions 9 to 14 carry 1 mark each. Questions 15 to 21 carry 2 marks each. Show your working in the space provided below each question. Write your answers in the spaces provided.

(20 marks)

9. How many eighths are there in $3\frac{1}{2}$?

Ans : _____

10. Find the value of $\frac{4}{9} \div \frac{8}{15}$. (Give your answer in its simplest form.)

Ans : _____

11. Melissa has \$45 and Jing Zhi has \$20. Express the amount of money Jing Zhi has as a fraction of the amount of money Melissa has.

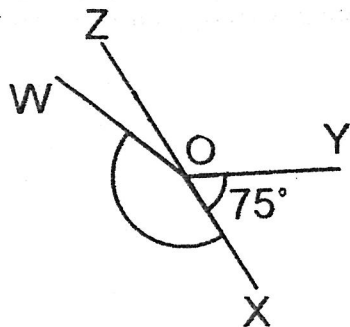
Ans: _____

12. 6 pencils costs \$10.80. Find the cost of 9 pencils.

Ans: \$ _____

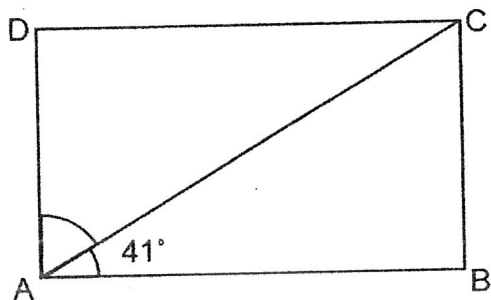


13. In the figure below, not drawn to scale, XZ is a straight line and $\angle XOY$ is 3 times $\angle WOZ$. Given that $\angle YOX$ is 75° ; find $\angle WOX$.



Ans: _____

14. The figure below shows a rectangle ABCD. Find $\angle CAD$.



Ans: _____

15. Mrs Chia had $\frac{4}{5}$ kg of rice. She gave $\frac{1}{8}$ kg of it to her neighbour and she packed the rest into packets of $\frac{1}{10}$ kg. What is the maximum number of packets she can get?

Ans: _____



16. At a shop, $\frac{1}{4}$ of the price of a pair of pants is equal to $\frac{2}{5}$ of the price of a dress. A pair of pants costs twice as much as a shirt. Mrs Choo spent \$700 on 2 pairs of pants, 3 dresses and a shirt.

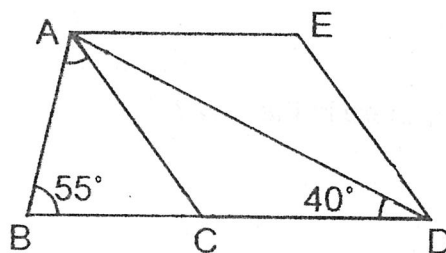
(a) What fraction of his money did he spend on dresses? Give your answer in the simplest form.

Ans:(a) _____

(b) How much did a dress cost?

Ans:(b) \$ _____

17. ACDE is a rhombus and BD is a straight line. Find $\angle BAC$.



Ans: _____ °



18. The breadth of a rectangle is $\frac{2}{3}$ of its length. The perimeter of the rectangle is 105 cm. Find the length of the rectangle.

Ans: _____ cm

19. In a quiz, marks were awarded for questions answered as shown below.

Correct	4 marks awarded
Wrong	2 marks deducted
Not attempted	1 mark deducted

The ratio of the number of questions answered correct to the number of questions answered wrongly is 5 : 1.

Eric attempted 30 questions and scored 86 marks.

- (a) How many questions did Eric answer correctly?

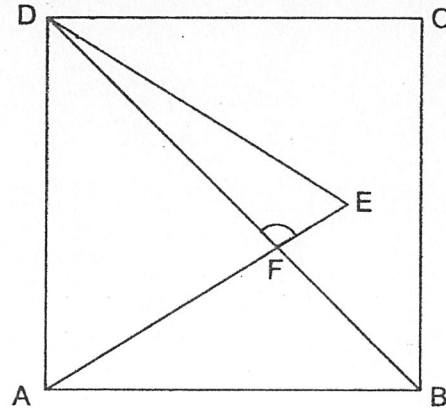
Ans: (a) _____

- (b) How many questions are there in the quiz?

Ans: (b) _____



20. The figure below, not drawn to scale, shows an equilateral triangle ADE overlapping with a square ABCD. DFB and AFE are straight lines. Find $\angle DFE$.



Ans: _____°

21. Bell A will ring every 12 minutes while Bell B rings every 28 minutes. The two bells rang at the same time at 9.30 a.m. When is the next time the two bells will ring at the same time again?

Ans: _____

END OF PAPER

Please check your work



SCHOOL: SINGAPORE CHINESE GIRLS' SCHOOL (PRIMARY)

SUBJECT: MATHEMATICS

LEVEL: PRIMARY 6

PAPER: WA1

SECTION A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
2	2	3	4	4	4	2	1

SECTION B

Ans: 10:3

Q9. 28

Q10. $\frac{5}{6}$

Q11. $\frac{4}{9}$

Q12. \$16.20

Q13. 155°

Q14. 49°

Q15. $\frac{4}{5} - \frac{1}{8} = \frac{27}{40}$

$$\frac{27}{40} \div \frac{1}{10} = \frac{27}{4} = 6\frac{3}{4}$$

Ans: 6 packets

Q16. (a) $\frac{1}{4}$ of pants = $\frac{2}{5}$ of dress

$\frac{2}{8}$ of pants = $\frac{2}{5}$ of dress

Pants $\rightarrow 8u$

Dress $\rightarrow 5u$

Shirt $\rightarrow 4u$

Total spent $\rightarrow (2 \times 8u) + (3 \times 5u) + 4u = 35u$

Fraction spent on dresses $\rightarrow \frac{15}{35} = \frac{3}{7}$

(b) $1u \rightarrow \$700 \div 35 = \20

$5u \rightarrow \$20 \times 5 = \100

Ans: \$100

Q17. $\angle ACD = 180^\circ - 40^\circ - 40^\circ = 100^\circ$

$\angle ACB = 180^\circ - 100^\circ = 80^\circ$

$\angle BAC = 180^\circ - 80^\circ - 55^\circ = 45^\circ$

Ans: 45°

Q18. Perimeter $\rightarrow 2u + 2u + 3u + 3u = 10u$

$10u \rightarrow 105\text{cm}$

$1u \rightarrow 10.5\text{cm}$

$3u \rightarrow 31.5\text{cm}$

Q19. (a) $5u + 1u = 6u$

$6u \rightarrow 30$

$5u \rightarrow 25$

Ans: 25 questions

(b) $(25 \times 4) - (5 \times 2) = 90$

$90 - 86 = 4$

$4 \div 1 = 4$

$30 + 4 = 34$

Ans: 34 questions

Q20. $\angle ADE = \angle DEA = 180^\circ \div 3 = 60^\circ$

$\angle CDE = 90^\circ - 60^\circ = 30^\circ$

$\angle FDE = 45^\circ - 30^\circ = 15^\circ$

$\angle DFE = 180^\circ - 60^\circ - 15^\circ = 105^\circ$

Ans: 105°

Q21. Lowest common multiple of 12 and 18 = 84

84min = 1h 24min

9.30 a.m. \rightarrow 10.54 a.m.

(1h 24min)

Ans: 10.54 a.m.

3

END

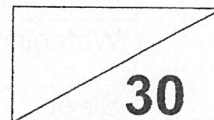
SINGAPORE CHINESE GIRLS' SCHOOL (PRIMARY)
PRIMARY 6 MATHEMATICS
TERM 2 WEIGHTED ASSESSMENT

Name: _____ ()

Date: _____

Class: Primary 6 SY / C / G / SE / P

Duration: 40 minutes

Calculators are allowed for this assessment.

Parent's Signature: _____

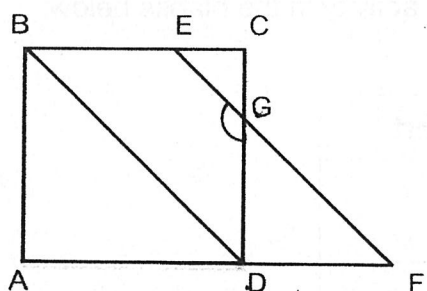
Section A

Questions 1 to 4 carry 2 marks each. Show your working in the space provided below each question. Write your answers in the spaces provided. **(8 marks)**

1. Express 1.6 as a percentage.

Ans: _____%

2. In the figure below, square ABCD overlaps with parallelogram BEFD. Find $\angle EGD$.



Ans: _____°

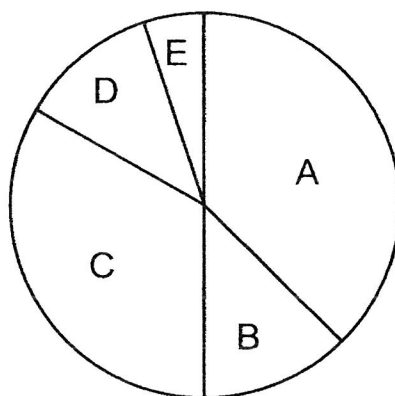
3. Samantha bought a television at 20% discount and paid \$1223. What was the price of the television before discount?

Ans: \$ _____

4. The table below shows the amount of time Jeremiah spent on each activity in a 24-hour day.

Activity	Time spent (hours)
Having meals	1.5
Exercise	2.5
Watching TV	3
Sleep	8
School	9

Time spent on each activity



Identify the parts of the pie chart to the corresponding activity in the blanks below.

Activity	Part
Exercise	
School	

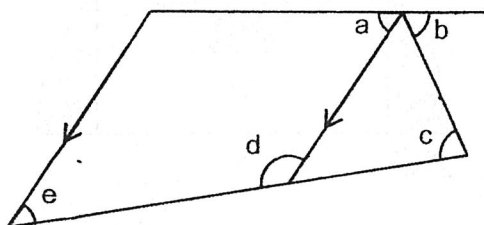
Section B

For questions 5 to 10, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question. (22 marks)

- 5) Sally and Berny shared some cards. When Sally gave Berny 48 cards, the number of cards Sally had decreased by 20% while the number of cards Berny had increased by 10%. Find the total number of cards Sally and Berny had.

Ans: _____ [3]

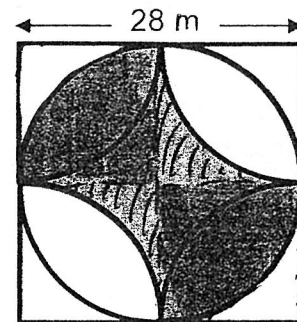
- 6) The figure below, not draw to scale, shows 5 straight lines.



Each of the statements is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) to indicate your answer. [3 marks]

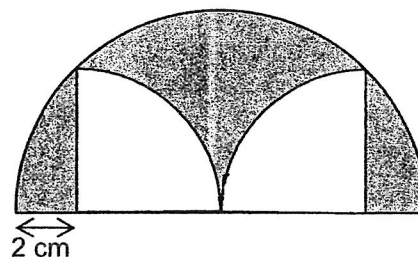
Statement	True	False	Not possible to tell
$\angle b = \angle c$			
$\angle a + \angle d = 180^\circ$			
$\angle a + \angle b = \angle e + \angle c$			

- 7a) The figure below, not drawn to scale, shows 4 quadrants overlapping with a circle. Find the area of the shaded part. (Take π as $\frac{22}{7}$)



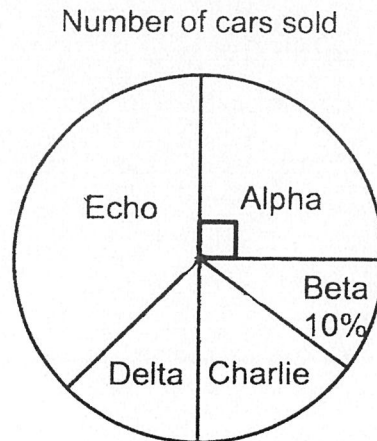
Ans: _____ [2]

- 7b) The figure below, not drawn to scale, shows a semi-circle and 2 quadrants. The diameter of the semi-circle is 20cm. Find the perimeter of the shaded part. Leave your answer in terms of π .



Ans: _____ [2]

- 8) The pie chart below shows the proportion of cars sold over 5 brands. The number of cars Echo sold is 3 times the number of cars Delta sold. The total number of cars Echo and Delta sold is equal to the total number of cars Alpha, Beta and Charlie sold.



- (a) Find the ratio of the number of cars Alpha sold to the number of cars Beta sold to the number of cars Charlie sold in the simplest form.

Ans: _____ [2]

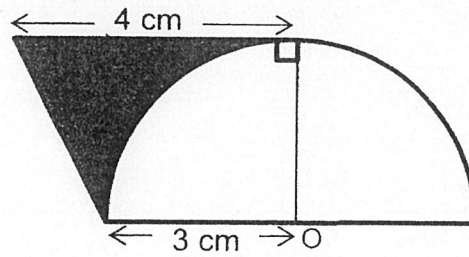
- (b) A total of 6600 cars were sold. Find the number of cars Echo sold.

Ans: _____ [2]

- 9) A fruit stall had a total of 785 apples and pears. 185 apples and 40% of the pears were sold. In the end, the ratio of the number of apples to the number of pears was 1 : 3. How many fruits were left in the end?

Ans: _____ [4]

- 10) In the figure below, not drawn to scale, a trapezium overlaps with a semi-circle. Using the calculator value of π , find the area of the shaded part. (Give your answer correct to 2 decimal places.)



Ans: _____ [4]

END OF PAPER

Please check your work

PRIMARY 6 MATHEMATICS
Revision Test 2

Name: _____ Date: _____

Class: Primary 6 _____ Parent's Signature: _____

Total Time: 45 min

Topics Included:

- Chapter 4 [Percentage]
- Chapter 5 [Angles in Geometrical Figures]
- Chapter 6 [Circles]

Instructions to pupils:

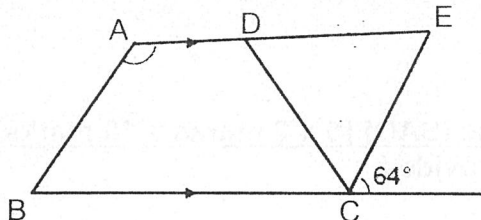
- DO NOT open this booklet until you are told to do so.
- Follow all instructions carefully.
- Answer **ALL** questions.
- The total marks for this paper is **30 (thirty)**.

Section A	10 marks
Section B	10 marks
Section C	10 marks
Total	30 marks

Section A: Multiple Choice Questions (MCQ) [5 x 2 marks = 10 marks]

Read the following questions and answer them by writing the number (1), (2), (3) or (4) in the brackets provided.

1. ABCD is a trapezium and CDE is an equilateral triangle. $AB = DC$. Find $\angle DAB$.



- (1) 56° (2) 64°
 (3) 116° (4) 124° ()

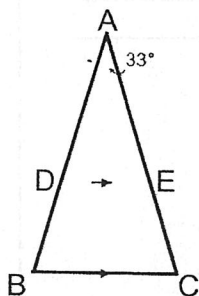
2. 3% of a number is 21. What is the number?

- (1) 7 (2) 24
 (3) 63 (4) 700 ()

3. Mrs Ling sold 20 doughnuts in the morning. She sold 24 doughnuts in the afternoon. Find the percentage increase in the number of doughnuts sold in the afternoon.

- (1) 4% (2) 20%
 (3) 24% (4) 48% ()

4. ADE is an isosceles triangle and DECB is a trapezium. Find $\angle BDE$.



- (1) 73.5° (2) 106.5°
 (3) 147° (4) 180° ()

5. Find the area of a circle with radius 14 cm. Take $\pi = \frac{22}{7}$.

(1) 56 cm²

(2) 88 cm²

(3) 196 cm²

(4) 616 cm²

()

Section B: Short – Answer Questions (SAQ) [5 x 2 marks = 10 marks]

Write your answers in the spaces provided.

6. After giving 75% of her postcards to a friend, Carian had 15 postcards left.
How many postcards did she have at first?

Ans: _____

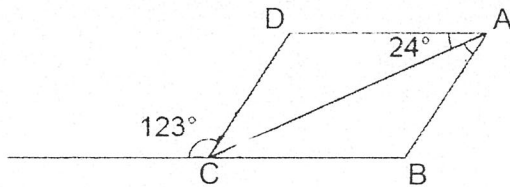
7. The radius of a circle is 8 cm. Find the circumference of the circle.
Take $\pi = 3.14$.

Ans: _____

8. Find the area of a semicircle with radius 3 cm. Take $\pi = 3.14$.

Ans: _____

9. ABCD is a parallelogram. Find $\angle CAB$.



Ans: _____

10. Find the perimeter of a quarter circle with radius 14 cm. (Take $\pi = \frac{22}{7}$.)

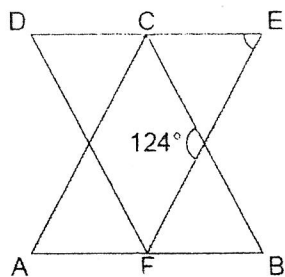
Ans: _____

Section C: Word Problems (2 x 3 marks + 1 x 4 marks = 10 marks)

Read the following questions carefully and write your answers in the spaces provided. Show your working clearly.

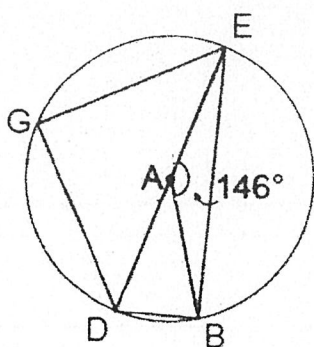
11. A magazine had 1500 subscribers in January. The ratio of the number of subscribers in January to February is 5 : 6. What is the percentage increase in the number of subscribers in February?

12. Triangles ABC and DEF are identical isosceles triangles. C is the midpoint of DE and F is the midpoint of AB. Find $\angle CEF$.



13. Triangle ADB, AEB and GDE are isosceles triangles. DAE is a straight line. $AD = AB = AE$.

- (a) Find $\angle ADB$.
 (b) If $DE = 14$ cm, find the area of the circle.
 (Take $\pi = \frac{22}{7}$.)



SCHOOL: SINGAPORE CHINESE GIRLS' SCHOOL (PRIMARY)

SUBJECT: MATHEMATICS

LEVEL: PRIMARY 6

PAPER: WA2

SECTION A

Q1. 160%

Q2. 135°

Q3. \$1528.75

Q4.

Activity	Part
Exercise	D
School	A

SECTION B

Q5. $1u \rightarrow 48 \div 2 = 24$

$$\text{Total} = 10u + 20u = 30u = 24 \times 30 = 720$$

Ans: 720 cards

Q6.

Statement	True	False	Not possible to tell
$\angle b = \angle c$		✓	
$\angle a + \angle d = 180^\circ$		✓	
$\angle a + \angle b = \angle e + \angle c$	✓		

Q7. (a) Area of small quadrant $= \frac{1}{4} \times \frac{22}{7} \times 14 \times 14 = 154$

$$(14 \times 14) - 154 = 42$$

$$\text{Unshaded area} = (42 \times 2) + (154 \times 2) = 392$$

$$\text{Shaded area} = (28 \times 28) - 392 = 392$$

Ans: 392m^2

$$(b) \left(\frac{1}{2} \times \pi \times 20\right) + \left(\frac{2}{4} \times \pi \times 16\right) + (2 \times 2 + 2 \times 8) = (18\pi + 20)$$

Ans: $(18\pi + 20)$ cm

Q8. (a) 5:2:3

(b) $1u \rightarrow 6600 \div 8 = 825$

Echo $\rightarrow 825 \times 3 = 2475$

Ans: 2475 cars

Q9. $12u \rightarrow 785 - 185 = 600$

$1u \rightarrow 50$

Fruits left in the end $= 8u = 50 \times 8 = 400$

Ans: 400 fruits

Q10. $4 - 1 = 3$

$$\left(\frac{1}{2} \times 3 \times 1\right) + \left[(3 \times 3) - \left(\frac{1}{4} \times \pi \times 3 \times 3\right)\right] = 3.43$$

Ans: 3.43cm^2

SCHOOL: .

SUBJECT: MATHEMATICS

LEVEL: PRIMARY 6

PAPER: REVISION TEST 2

SECTION A

Q1	Q2	Q3	Q4	Q5
4	4	2	2	4

SECTION B

Q6. 600 postcards

Q7. 50.24cm

Q8. 19.13cm^2

Q9. 33°

Q10. 50cm

SECTION C

Q11. Number of subscribers in February $\rightarrow 1500 \div 5 \times 6 = 1800$

$$\text{Percentage increase} \rightarrow \frac{1800-1500}{1500} \times 100 = 20\%$$

Ans: 20%

Q12. $180^\circ - 124^\circ = 56^\circ$

$$\frac{180^\circ - 56^\circ}{2} = 62^\circ$$

Ans: 62°

Q13. (a) $80^\circ - 146^\circ = 34^\circ$

$$\frac{180^\circ - 34^\circ}{2} = 73^\circ$$

Ans: 73°

(b) Area $\rightarrow \frac{22}{7} \times 7 \times 7 = 154\text{cm}^2$

Ans: 154cm^2

3
END

Parent's signature: _____

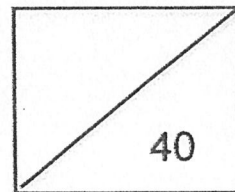
Date: _____



Anglo-Chinese School
(Primary)

A Methodist Institution
(Founded 1886)

Mathematics



Name: _____ () Class: P 6 _____ Date: _____

Topical Test: Algebra / Fractions / Percentage**Section A (5 x 1 mark) Multiple-Choice Questions:**Write your option in the () provided. The use of calculators is **NOT** allowed.

1. Which of the following expressions has the same value as $\frac{5}{8} \div 4$?

(1) $\frac{5}{8} \times \frac{1}{4}$

(2) $\frac{8}{5} \times \frac{1}{4}$

(3) $\frac{5}{8} \times \frac{4}{1}$

(4) $\frac{8}{5} \times \frac{4}{1}$

()

2. Simplify the expression $6x + 8 - 4x + 7 + x$.

(1) $x + 15$

(2) $3x - 15$

(3) $3x + 15$

(4) $11x + 15$

()

3. Jon had some money at first. He spent $\frac{1}{5}$ of it on a pencil case and spent $\frac{5}{12}$ of the remaining money on books. What fraction of his money had he left?

(1) $\frac{1}{3}$

(2) $\frac{7}{12}$

(3) $\frac{7}{15}$

(4) $\frac{8}{15}$

()

4. Susan bought a dress at a discount of 20%. She paid \$300 for the dress. What was the original price of the dress before the discount?

(1) \$240

(2) \$320

(3) \$360

(4) \$375

()

5. Bowling Academy had 240 members last year. There are 300 members this year. What was the percentage increase in the number of members?

- (1) 20%
- (2) 25%
- (3) 45%
- (4) 80%

()

Section B (3 x 1 mark) Open-ended Questions

Write your answer in the spaces provided. For questions which require units, give your answers in the units stated. The use of calculators is **NOT** allowed.

6. Express 0.5% as a fraction in its simplest form.

Ans: _____

7. Find the value of $\frac{32-2p}{5} + 15$ when $p = 6$.

Ans: _____

8. Aminda had $\frac{3}{5}$ m of ribbon. She cut $\frac{1}{10}$ -m pieces to tie a present. How many such pieces can she get?

Ans: _____

Section C (32 marks)

There are 10 questions in section. All working must be shown clearly. Number of marks available is shown in brackets [] at the end of each question or part-question. The use of calculators is allowed.

9. The area of a rectangular plastic strip is $\frac{3}{4} \text{ m}^2$. Its width is $\frac{1}{8} \text{ m}$. What is the perimeter of the rectangular plastic strip?
Express your answer as a fraction in the simplest form.

Ans: _____ m [2]

10. Ethan spent 60% of his money on a pair of pants. He used the rest of his money to buy a shirt. The pair of pants cost \$38 more than the shirt. How much did he spend altogether?

Ans: \$ _____ [2]

11. The table below shows the amount each of the four girls paid for a birthday present.

The birthday present costs \$140.

Which two girls paid a total of 45% of the cost of the birthday present?

Name	Amount paid (\$)
Cindy	27
Sara	45
Dawn	36
Lisa	32

Ans: _____ and _____ [2]

12. Susan and Daisy had a total of \$180. After Susan spent $\frac{1}{4}$ of her money and Daisy spent $\frac{1}{2}$ of her money, they had an equal amount of money left. How much money did Susan have at first?

Ans: \$ _____ [2]

13. Aaron, Brandon and Charles shared some marbles. Aaron and Charles received 58% of the marbles. Aaron had twice as many marbles as Charles. Aaron received 232 marbles. How many marbles were shared by the three children?

Ans: _____ [3]

14. At a cycling competition, $\frac{3}{5}$ of the cyclists were male. $\frac{3}{4}$ of the male cyclists and 96 female cyclists completed the competition. $\frac{1}{4}$ of the cyclists did not complete the competition. How many more male than female cyclists completed the competition?

Ans: _____ [4]

15. A highlighter cost y cents and a pencil cost 45 cents less than the highlighter.
- (a) What was the cost of 4 highlighters and a pencil. Express your answer in terms of y .
 - (b) Each highlighter cost \$1.20. Peter needed 30 cents more to buy 4 highlighters and a pencil. How much did Peter have?

Ans: a) _____ [2]

b) _____ [2]

16. At a bookstore, 20% of the books are fiction, 35% of the remainder are non-fiction and the rest are assessment books. There are 480 more assessment books than fiction. After selling 10% of the assessment books, what percentage of the books left are assessment books? Give your answer correct to the nearest whole number.

Ans: _____ [5]

17. Mr Tan sold 240 bags in February. The number of bags sold was 20% increase from what he sold in January. The number of bags sold in March was a 15% decrease from what he sold in February.

- (a) What was the total number of bags Mr Tan sold from January to March?
- (b) What was the percentage increase in the number of bags sold in March compared to January?

Ans: a) _____ [2]

b) _____ [2]

18. Tina had some blue, red and white beads in her container.
 $\frac{2}{5}$ of the beads were red. $\frac{4}{9}$ of the remaining beads were blue and the rest were white. There were 105 more red beads than white beads.
- (a) What fraction of the beads was blue? Give your answer in its simplest form.
(b) How many beads did Tina have altogether?

Ans: a) _____ [1]

b) _____ [3]

SCHOOL: ANGLO-CHINESE SCHOOL (PRIMARY)

SUBJECT: MATHEMATICS

LEVEL: PRIMARY 6

PAPER: CA1

SECTION A

Q1	Q2	Q3	Q4	Q5
1	3	3	4	2

SECTION B

Q6. $\frac{1}{200}$

Q7. 19

Q8. 6

SECTION C

Q9. $\frac{3}{4} \div \frac{1}{8} = 6$

$$(2 \times 6) + \left(2 \times \frac{1}{8}\right) = 12\frac{1}{4}\text{m}$$

Ans: $12\frac{1}{4}\text{m}$

Q10. $100\% - 60\% = 40\%$

$$60\% - 40\% = 20\%$$

$$20\% \rightarrow \$38$$

$$100\% \rightarrow \$38 \div 20 \times 100 = \$190$$

Ans: \$190

Q11. $45\% \times \$140 = \63

$$\$27 + \$36 = \$63$$

Ans: Cindy and Dawn

Q12. 10 units \rightarrow \$180

$$1 \text{ unit} \rightarrow \$180 \div 10 = \$18$$

$$4 \text{ units} \rightarrow \$18 \times 4 = \$72$$

Ans: \$72

Q13. $232 \div 2 = 116$

$$58\% \rightarrow 232 + 116 = 348$$

$$100\% \rightarrow \frac{348}{58} \times 100 = 600$$

Ans: 600 marbles

Q14. $\frac{3}{5} \times \frac{3}{4} = \frac{9}{20}$

Male cyclists $\rightarrow 12u$

Female cyclists $\rightarrow 8u$

$$\frac{1}{4} \text{ of cyclists} \rightarrow (8u - 96) + 3u = 11u - 96$$

$$\frac{4}{4} \text{ of cyclists} \rightarrow (11u - 96) \times 4 = 44u - 384$$

$$44u - 384 = 20u$$

$$44u - 20u = 384$$

$$24u = 384$$

$$1u = 16$$

Male cyclists that completed the competition $\rightarrow 9u$

$$9u = 142$$

$$142 - 96 = 48$$

Ans: 48

Q15. (a) Cost of pencil = $y - 45$

$$\text{Cost of 4 highlighters and 1 pencil} = 4y + (y - 45) = 5y - 45$$

Ans: $(5y - 45)$ cents

(b) $y = 120c$

$$5y - 45 = (5 \times 120) - 45 = 555c$$

$$555c - 30c = 525c = \$5.25$$

Ans: \$5.25

Q16. $100\% - 20\% = 80\%$

$$35\% \times 80 = 28\%$$

$$100\% - 20\% - 28\% = 52\%$$

$$52\% - 20\% = 32\%$$

$$32\% \rightarrow 480$$

$$1\% \rightarrow 480 \div 32 = 15$$

$$52\% \rightarrow 15 \times 52 = 780$$

$$100\% \rightarrow 100 \times 15 = 1500$$

$$10\% \text{ of assessment books} \rightarrow 10\% \times 780 = 78$$

$$\% \text{ of books left that are assessment books} \rightarrow \frac{780-78}{1500-78} \times 100 = 49\%$$

Ans: 49%

Q17. (a) Bags sold in January $\rightarrow 240 \div 120 \times 100 = 200$

$$\text{Bags sold in March} \rightarrow 85\% \times 240 = 204$$

$$\text{Total bags sold} \rightarrow 200 + 240 + 204 = 644$$

Ans: 644 bags

(b) $\% \text{ increase} \rightarrow \frac{204-200}{200} \times 100 = 2\%$

Ans: 2%

Q18. (a) $\frac{4}{9} \times \frac{3}{5} = \frac{4}{15}$

(b) Red $\rightarrow 6u$

Blue $\rightarrow 4u$

White $\rightarrow 5u$

$6u - 5u = 1u$

$1u \rightarrow 105$

$15u \rightarrow 105 \times 15 = 1575$

Ans: 1575 beads

4
END



Anglo-Chinese School (Primary)

A Methodist Institution
(Founded 1886)

Mathematics Primary Six

Revision Paper – Set 2A

Name: _____ ()

Class: Primary 6 _____

Date: _____

Paper 1 Duration: 1 hour
(Calculator not allowed)

Paper 2: Duration: 1 hour 30 minutes
(Calculator is allowed)

AL	Mark Range	Your AL is:
AL1	≥ 90	
AL2	85 – 89	
AL3	80 – 84	
AL4	75 – 79	
AL5	65 – 74	
AL6	45 – 64	
AL7	20 – 44	
AL8	< 20	

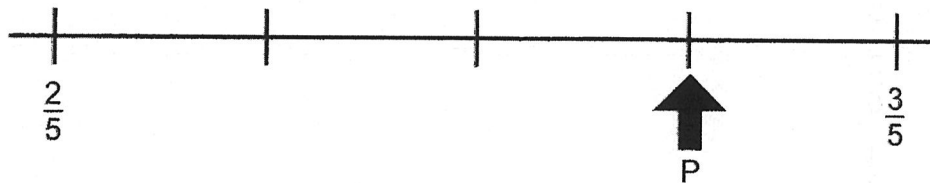
Section	Maximum Marks	Marks Obtained
Paper 1 Booklet A. Multiple-Choice Questions	20	
Paper 1 Booklet B. Short Answers: Part 1	5	
Paper 1 Booklet B. Short Answers: Part 2	20	
Paper 2 Section B. Short Answers : Part 2	10	
Paper 2 Section C. Problem Sums	45	
Total Marks	100	

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer
Sheet (OAS). (20 marks)

1. 9 tens, 6 tenths and 5 thousandths is _____.

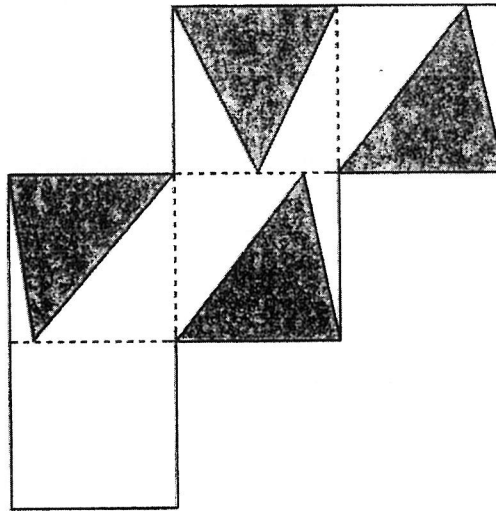
- 1) 9.605
- 2) 9.65
- 3) 90.605
- 4) 90.65

2. In the number line below, what fraction is represented by P?



- 1) $\frac{3}{20}$
- 2) $\frac{9}{20}$
- 3) $\frac{1}{2}$
- 4) $\frac{11}{20}$

3. The figure is made up of 5 identical squares. What fraction of the figure is shaded?



- 1) $\frac{1}{5}$
 - 2) $\frac{2}{5}$
 - 3) $\frac{3}{5}$
 - 4) $\frac{4}{5}$
4. Mindy used a packet of flour to bake some cupcakes and cookies. After using $\frac{3}{7}$ of the packet of flour for cupcakes and 250 g of flour for cookies, she had 230 g of flour left. How much more flour did Mindy use for cupcakes than cookies?

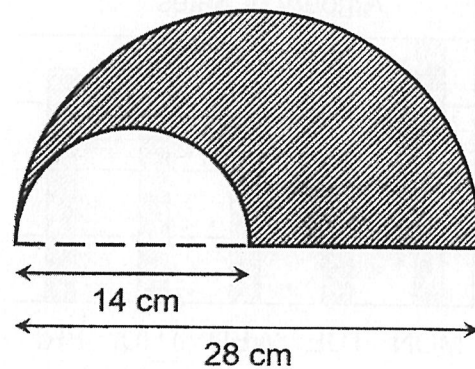
- 1) 110 g
- 2) 120 g
- 3) 360 g
- 4) 610 g

5. Which of the following has the same value as 12 km 34 m?

- 1) 1234 m
- 2) 12 034 m
- 3) 12 340 m
- 4) 123 400 m

6. Find the perimeter of the shaded part.

Take $\pi = \frac{22}{7}$



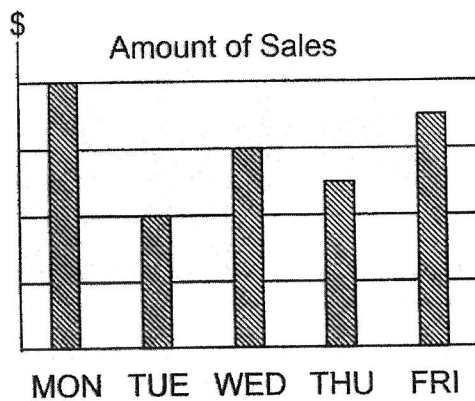
- 1) 44 cm
- 2) 66 cm
- 3) 80 cm
- 4) 231 cm

7. The table shows the amount of sales of a shop from Monday to Friday.

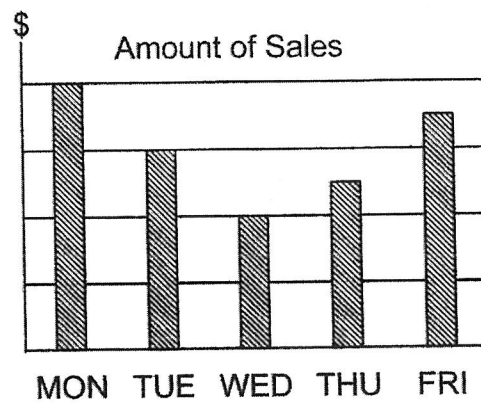
Day	Sales (\$)
MON	350
TUE	200
WED	300
THU	250
FRI	400

Which of the following bar graphs represents the information shown in the table above?

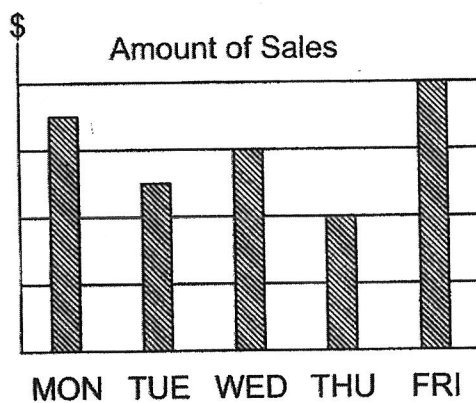
1)



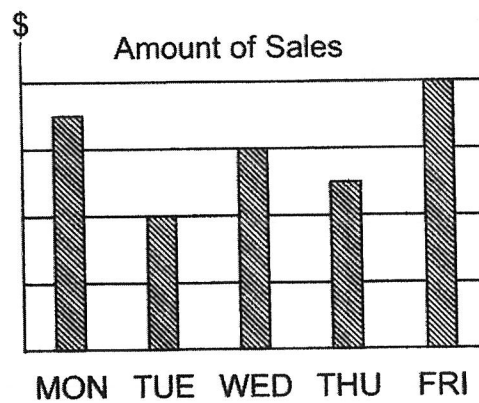
2)



3)



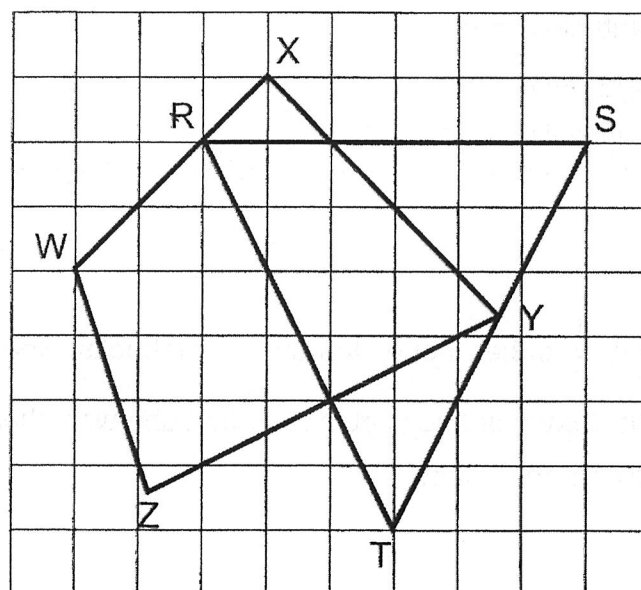
4)



8. Frank had 48 stamps and George had 42 stamps. Helen had 15 stamps more than George. What was the average number of stamps these 3 children had?

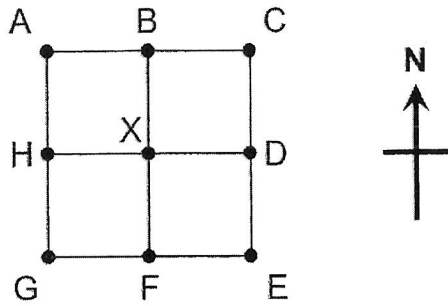
- 1) 35
- 2) 49
- 3) 51
- 4) 105

9. Which of the 2 lines are perpendicular to each other?



- 1) RT and WX
- 2) XY and ST
- 3) RT and YZ
- 4) XY and WZ

10. Both Caleb and Richard were standing at point X facing North. Caleb turned clockwise to face point E. What angle should Richard turn to face point E?

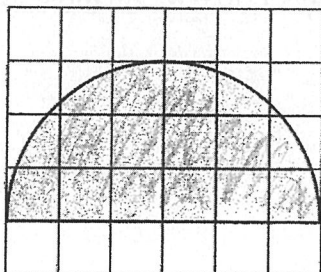


- 1) 225° anti-clockwise
 - 2) 270° anti-clockwise
 - 3) 225° clockwise
 - 4) 270° clockwise
11. Mrs Tan spent $\frac{4}{5}$ of her money to buy 16 notebooks. She wanted to buy another 16 identical notebooks but found that she was short of \$36. What was the price of 1 notebook?

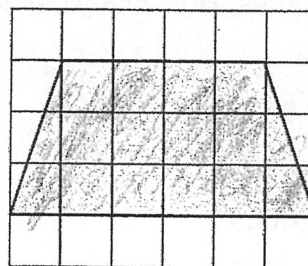
- 1) \$1.80
- 2) \$2.25
- 3) \$3
- 4) \$4

12. Which of the following shaded shapes has the largest area?

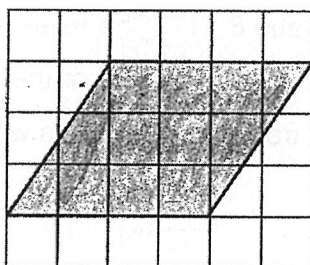
1)



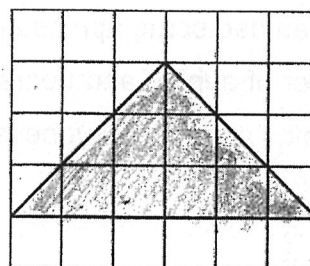
2)



3)



4)



13. Which of the following is NOT a net of a cube?

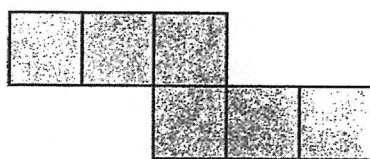
1)



2)



3)



4)



14. A machine started printing cards at 5.30 a.m. at the rate of 250 cards per hour. After every 3.5 hours of printing, the machine was stopped for 30 minutes. How many cards were printed by 11.30 p.m. on the same day?

- 1) 875
- 2) 3500
- 3) 4000
- 4) 4500

15. Mrs Tan had some apples and pears in the ratio 8 : 17. She used an equal number of apples and pears to make some tarts. The ratio of the number of apples and pears left became 1 : 4. What fraction of the fruits were left?

- 1) $\frac{2}{3}$
- 2) $\frac{3}{5}$
- 3) $\frac{2}{5}$
- 4) $\frac{1}{5}$

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided.
For questions which require units, give your answers in the units stated.

(5 marks)

16. Find the value of $45 + 5 - 5 \div 5$.

Answer: _____

17. Tina had $\frac{7}{8}$ l of milk. She poured the milk equally into 4 cups. She added $\frac{1}{8}$ l of chocolate syrup to one of the cups to make chocolate milk. How much chocolate milk was there in the cup?

Answer: _____ l

18. Kenny started watching a 27 minutes video at 1045. He took an 8 minutes break before starting another movie for 1 hour and 30 minutes. What time did he finish the movie? Express your answer in 24-hour format.

Answer: _____

19. The school is between John's home and the park. If the park is 297 m from the school and the school is 706 m from his home, how far, in km, is his home from the park?



Park



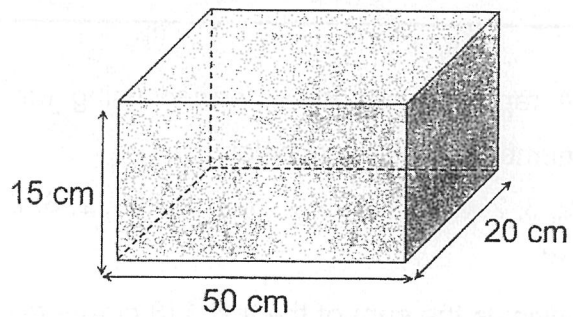
School



John's Home

Answer: _____ km

20. A rectangular container measuring 50 cm by 20 cm by 15 cm was completely filled with water. What was the new height of the water level after 4 l of water were poured out?



Answer: _____ cm

Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

21. A repeated pattern is formed using the numbers 2 and 3. The first 20 numbers are shown below.

2, 3, 2, 3, 2, 2, 2, 3, 2, 3, 2, 2, 2, 3, 2, 3, 2, 2, 2, 3, ...

1st

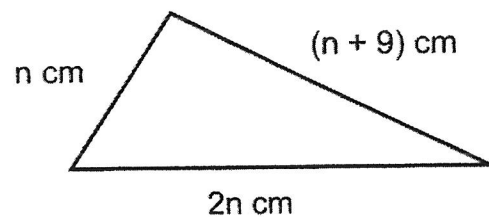
20th

What is the sum of the first 118 numbers?

Answer: _____

22. Peter had a wire which was 57 cm long. He formed a triangle, with sides measuring n cm, $2n$ cm and $(n + 9)$ cm with all the wire.

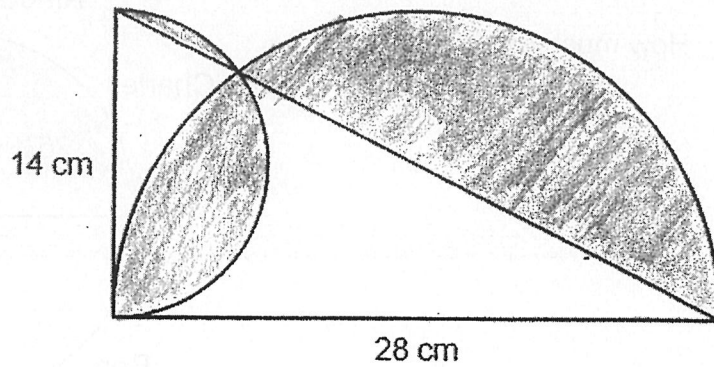
Find the value of n .



Answer: _____

23. The shaded area is made from overlapping 2 semi-circles and a right-angled triangle. The diameters of 2 semi-circles are 14 cm and 28 cm respectively.

Find the area of the shaded parts. Take $\pi = \frac{22}{7}$



Answer: _____ cm^2

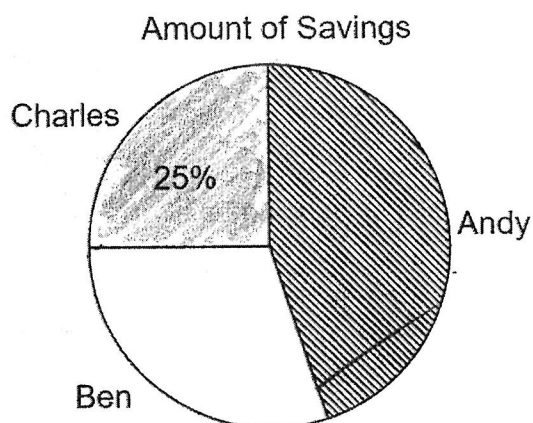
5.

Sub-Total :

Use the information below to answer Question 24 and Question 25

The pie chart represents the amount of savings each of the 3 boys had. Andy saved \$243 and Ben saved \$162. Charles saved 25% of the total savings.

24. How much did Charles save?

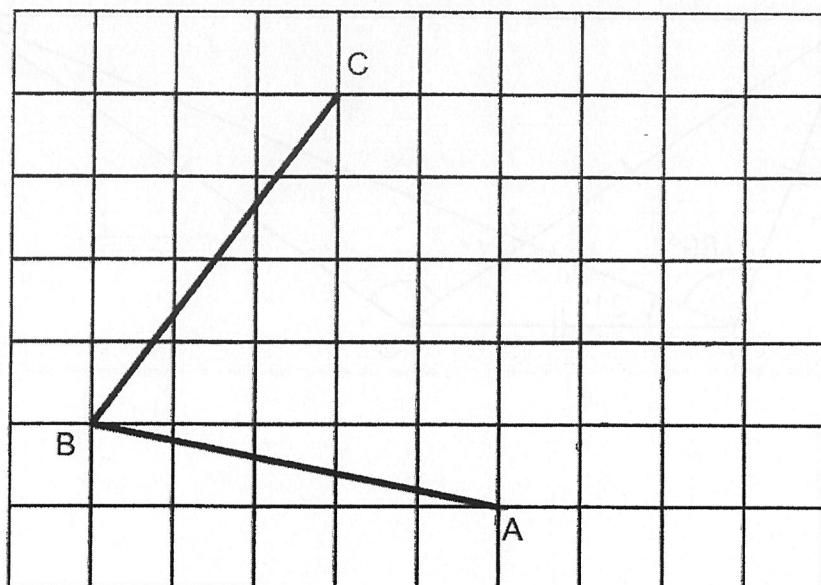


Answer: \$ _____

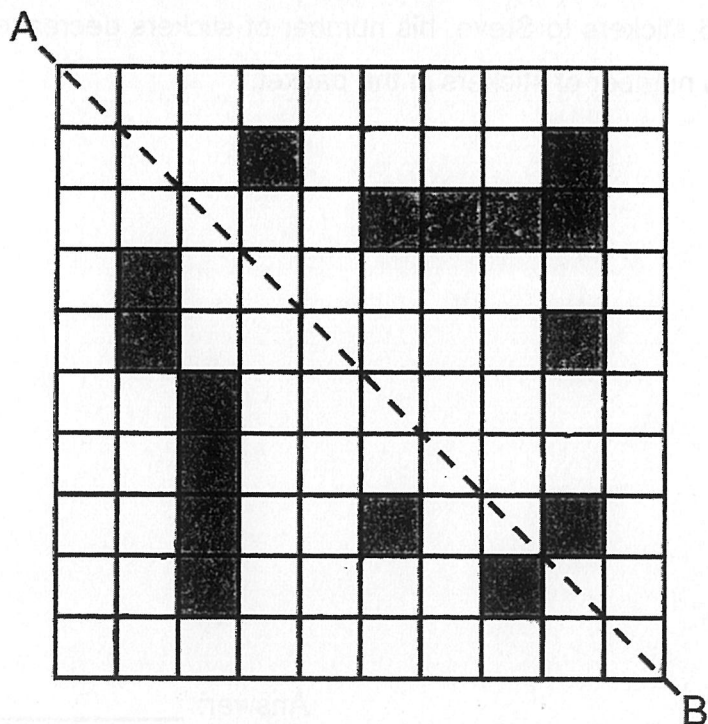
25. A fourth boy, David, decided to join the group's savings. After he joined, the average savings increased by \$8. How much did David save?

Answer: \$ _____

26. AB and BC are two sides of a rhombus. Complete the rhombus by drawing the other two sides in the square grid below.



27. In the figure below, shade the minimum number of square(s) to form a symmetric figure with AB as the line of symmetry.

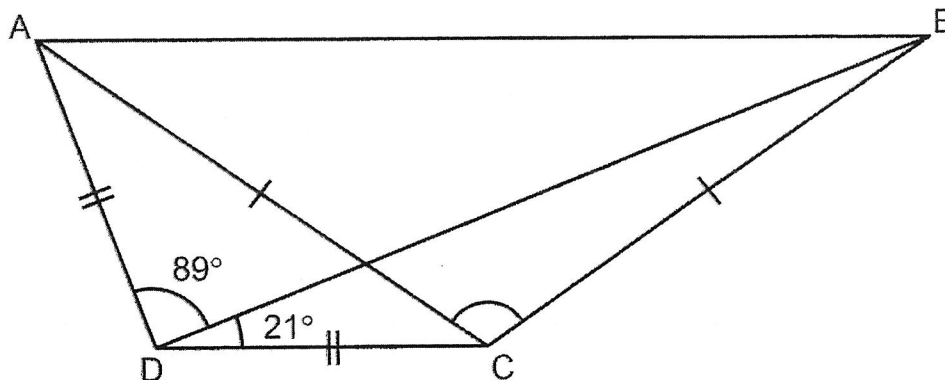


7

Sub-Total :

28. In the figure below, ABCD is a trapezium. $AD = CD$ and $AC = BC$.

$\angle ADB = 89^\circ$ and $\angle BDC = 21^\circ$. Find $\angle ACB$.



Answer: _____

29. Steve and Tom shared a packet of stickers. Steve received 65 stickers. After Tom gave 36 stickers to Steve, his number of stickers decreased by 40%. Find the total number of stickers in the packet.

Answer: _____

30. Mrs Lee spent \$168 on some pencils and pens. The number of pencils bought is 3 times the number of pens bought. The cost of each pencil and pen is \$1.50 and \$2.50 respectively. How many pencils did she buy?

Answer: _____

End of Paper 1

Name: _____ Class: _____

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

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1. The sum of three odd 2-digit numbers is 181. One of the odd numbers is 29. What is the greatest difference between the other two odd numbers?

Ans: _____ [2]

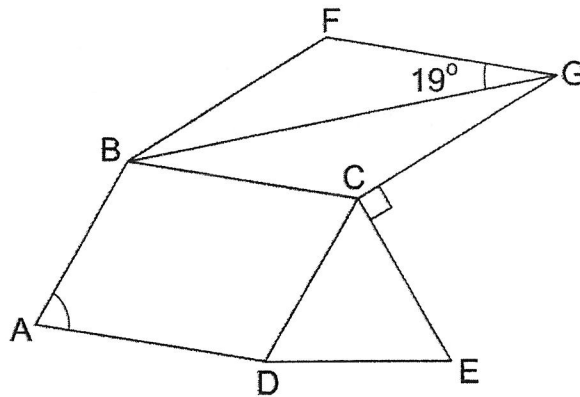
2. Water flowed from a tap to an empty container at a rate of 6.08 ℓ per hour. The tap was turned on at 5.45 p.m. and was turned off at 1 a.m. when the container was full.

What was the volume of the water in the container in ℓ and $\text{m}\ell$?

Ans: _____ ℓ _____ $\text{m}\ell$ [2]

Name: _____ Class: _____

3. In the figure below, ABCD is a parallelogram, CED is an equilateral triangle, and BFGC is a rhombus. $\angle FGB = 19^\circ$. Find $\angle BAD$.



Ans: _____ $^\circ$ [2]



4. The ratio of the capacity of a jug to the capacity of a pail is 1 : 4. The capacity of the pail is $\frac{5}{6}$ the capacity of a tank. The pail is half-filled with 3 l of water. Find the total capacity of the jug, pail and tank.

Ans: _____ l [2]



5. The table showed the number of mobile devices owned by each family. Part of the table was torn off as shown below. There were 57 families with more than 2 mobile devices owned.

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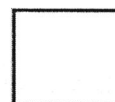
No. of mobile devices	0	1	2	3	4	5
No. of families	3	5	15	25		

Each of the statement is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) to indicate your answer.

Statement	True	False	Not possible to tell
(a) There are a total of 77 families who owned mobile devices.			
(b) If the average number of mobile devices per family is $3\frac{1}{8}$, then there are 24 families with 4 mobile devices.			

[1]

[1]



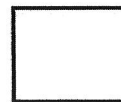
For questions 6 to 17, show your working clearly in the space provided for each question and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question.

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(45 marks)

6. 4 boys had an average of 90 marbles. During a play session, they lost a total of 15 marbles. 2 more boys joined the group and brought 85 and 62 marbles respectively. What was the new average?

Ans: _____ [3]



7. Alan had some money at first. He spent $\frac{3}{5}$ of his money on a pair of shoes and $\frac{7}{10}$ of the remainder on some books. After his mother gave him \$396, he had the same amount of money as he had at first. How much money did he have at first?

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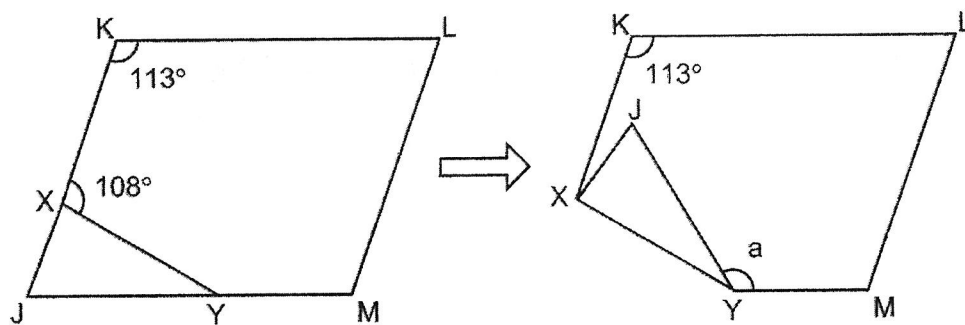
Ans: _____ [3]



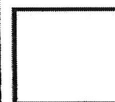
8. Parallelogram JKLM is folded along line XY to form the shape KLMYX.

$\angle XKL = 113^\circ$ and $\angle KXY = 108^\circ$. Find $\angle a$.

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Ans: _____ [3]



9. Jeremy and Daniel took part in a marathon. When Jeremy completed the marathon in 4 hours, Daniel had only run $\frac{5}{8}$ of the distance. Jeremy's speed was 3 km/h faster than Daniel. Find Daniel's average speed for the marathon.

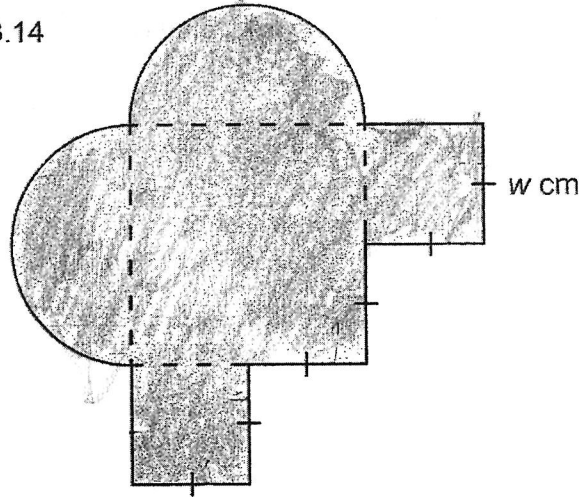
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Ans: _____ [3]

☐

10. The shaded figure is made of squares and semi-circles. The length of the smaller square is w cm. The perimeter of the figure is 357 cm.

Find the value of w . Take $\pi = 3.14$



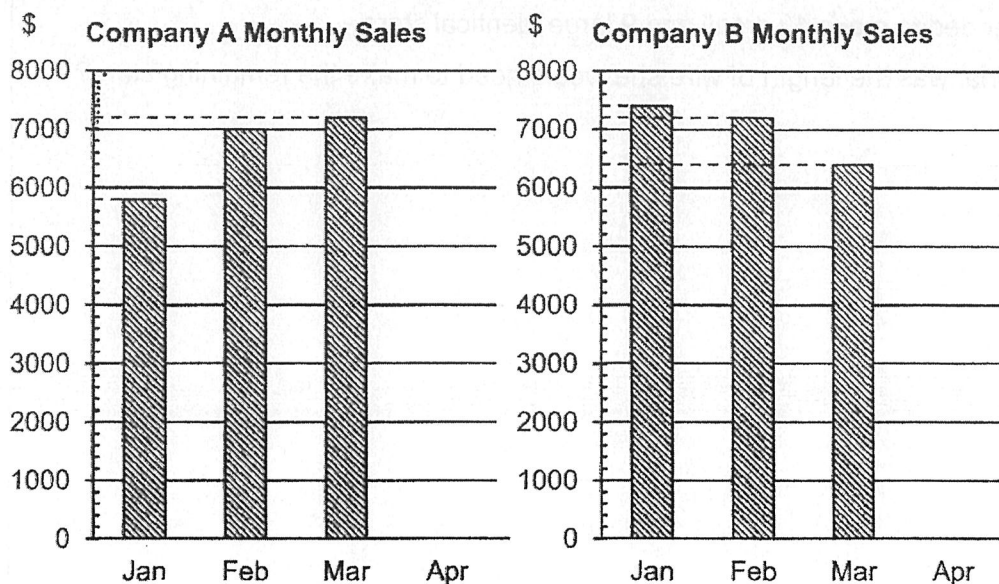
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Ans: _____ [3]



11. The bar graphs below show the sales of 2 companies, A and B, from January to March.

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- (a) In Company A, 80% of the 4 months' sales were from January to March.
What was the sales of Company A in April?

- (b) In April, sales of Company B was $\frac{1}{4}$ of its total sales from January to April. Express the total sales of Company B as a percentage of the total sales of Company A.

Ans: (a) _____ [2]

(b) _____ [2]

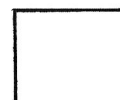


12. Maria made 8 small stars and 5 large stars using 9.68 m of wire. The length of the wire she used for 3 large stars was the same as that for 4 small stars. She needed to make 12 small and 9 large identical stars.

What was the length of wire she would need to make the remaining stars?

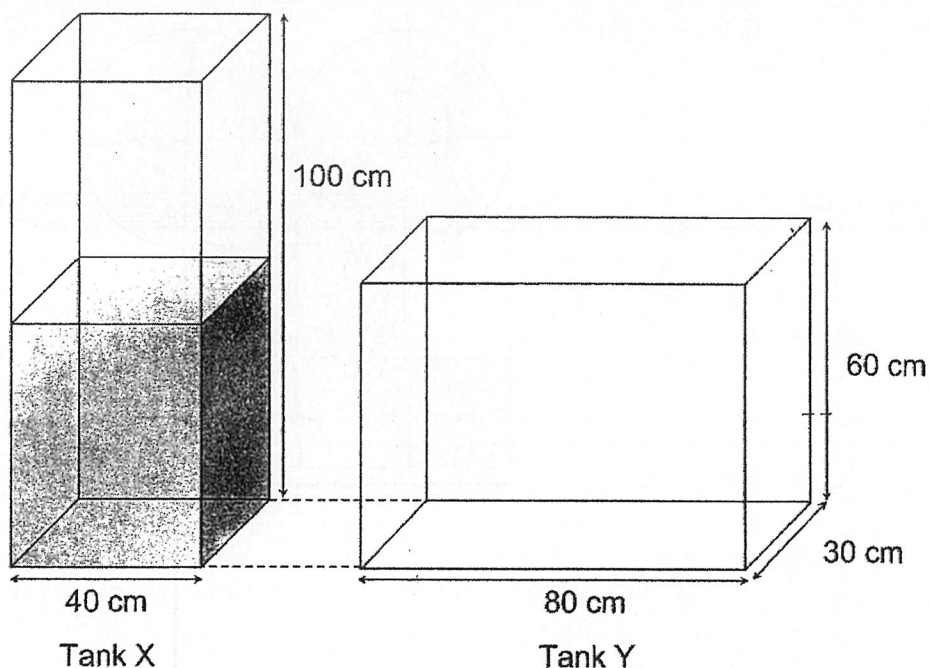
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Ans: _____ [4]

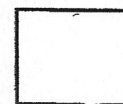


13. Tank X and Tank Y were transparent rectangular tanks. Tank X measured 40 cm by 30 cm by 100 cm. It was half-filled with water. Tank Y was an empty tank, measuring 80 cm by 30 cm by 60 cm. Some water was transferred from Tank X to Tank Y. The height of the water in Tank Y was $\frac{1}{3}$ of the water level in Tank X. How much water was transferred to Tank Y?

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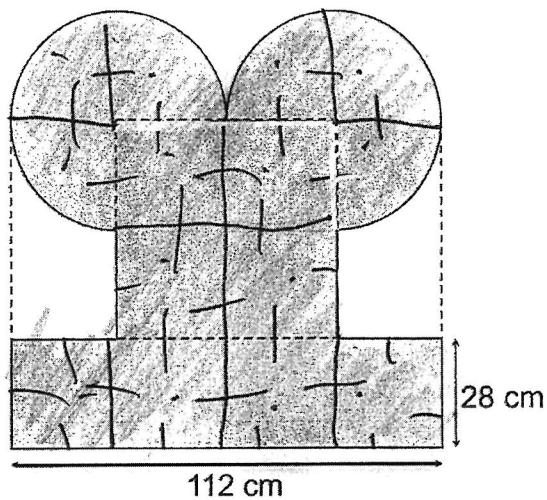
Ans: _____ [4]



14. The shaded figure below is formed by two identical three-quarter circles, a square and a rectangle.

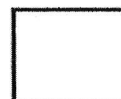
- (a) Find the perimeter of the shaded figure.
(b) Find the area of the shaded figure.

Take $\pi = \frac{22}{7}$



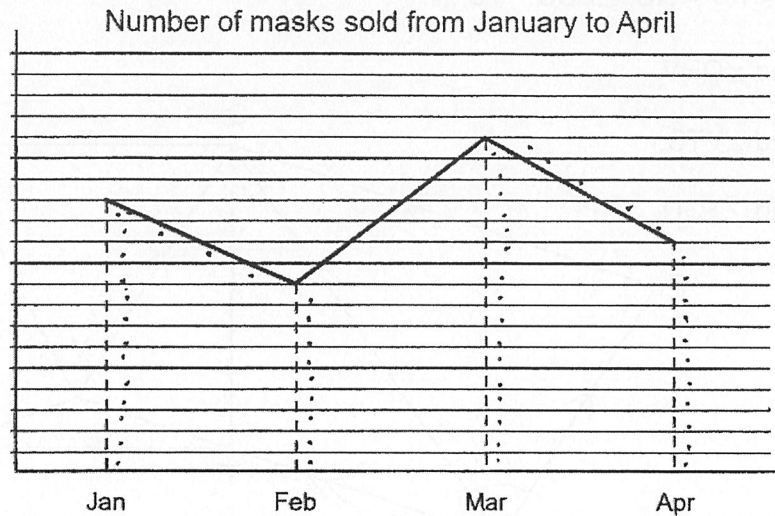
Ans: (a) _____ [3]

(b) _____ [2]



15. The line graph shows the number of masks sold in a shop from January to April.

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- (a) What is the ratio of the least number of masks sold to the highest number of masks sold during this 4-month period?

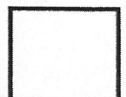
Ans: _____ [1]

- (b) During which 1-month interval was there the most decreased number of masks sold?

Ans: _____ to _____ [1]

- (c) The shop sold a total of 98 masks in the 4 months. How many masks were sold in January?

Ans: _____ [2]



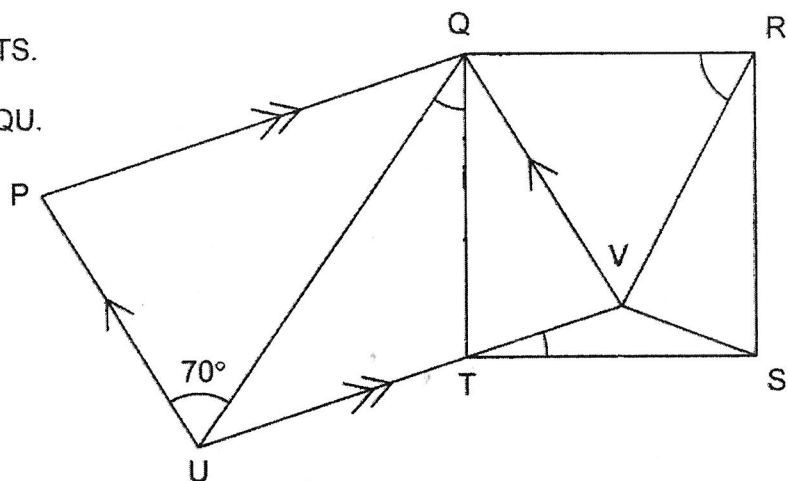
16. In the figure below, PQVU is a parallelogram and QRST is a square.

$QT = QV = RV = RS$. $\angle PUQ = 70^\circ$.

(a) Find $\angle QRV$.

(b) Find $\angle VTS$.

(c) Find $\angle TQU$.



Ans: (a) _____ [1]

(b) _____ [2]

(c) _____ [2]

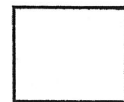


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17. Alice had some coloured beads. She used $\frac{1}{7}$ of them to make a bracelet and gave 48 of the beads to her sister. She was left with $\frac{2}{3}$ of the beads. She made 15 rings with the remaining beads. Some rings were made with 19 beads while the rest were made with 6 beads.
- (a) How many coloured beads were used to make 15 rings?
- (b) How many rings were made with 6 beads?

Ans: (a) _____ [2]

(b) _____ [2]



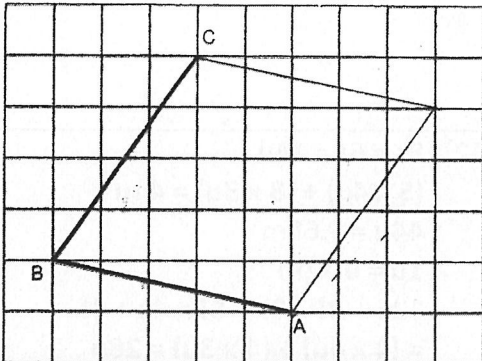
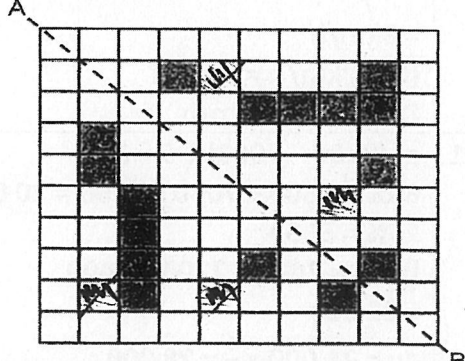
END OF PAPER 2

YEAR : 2023
 LEVEL : PRIMARY 6
 SCHOOL : ANGLO-CHINESE SCHOOL (PRIMARY)
 SUBJECT : MATHEMATICS
 TERM. : REVISION PAPER – SET 2 A

(BOOKLET A)

Q1	3	Q2	4	Q3	2	Q4	1	Q5	2
Q6	3	Q7	4	Q8	2	Q9	3	Q10	1
Q11	3	Q12	2	Q13	4	Q14	3	Q15	2

(BOOKLET B)

Q16	$45 + 5 - 1 = 49$	Q17	$\frac{1}{8} = \frac{4}{32}$ $\frac{7}{8} \div \frac{4}{32} = \frac{7}{1}$ $\frac{7}{32} + \frac{4}{32} = \frac{11}{32} \text{ L}$
Q18	1250	Q19	$706 + 297 = 1003\text{m}$ $= 1.003\text{km}$
Q20	$\frac{4000\text{ml}}{50 \times 20} = 4$ $4 \times 50 \times 20 = 4000$ $15 - 4 = 11\text{cm}$	Q21	$1 \text{ set} = 2 + 3 + 2 + 2 = 14$ $\text{No. of sets} = \frac{118}{6} = 19\text{R}4$ $\text{Sum} = (19 \times 14) + 10 = 276$
Q22	$57 = 4n + 9$ $48 = 4n$ $1n = 12$	Q23	$(\frac{1}{2} \times \frac{22}{7} \times 7^2) + (\frac{1}{2} \times \frac{22}{7} \times 14^2) - (\frac{1}{2} \times 14 \times 28) = 189 \text{ cm}^2$
Q24	$25\% = \frac{243+162}{3} = \135	Q25	$100\% = 135 \times 4 = 540$ $\frac{540}{3} = 180$ $8 \times 4 = 32$ $32 + 180 = \$212$
Q26		Q27	
Q28	$(180 - 89 - 21) \div 2 = 35$ $180 - 89 - 21 = 70$ $78 - 35 = 35$ $180 - 35 - 35 = 110^\circ$	Q29	$36 = 4\%$ $100\% = 36 \times \frac{100}{40} = 90$ $65 + 90 = 155$

Q30	$3 \times 1.5 = 4.5$ $4.5 + 2.5 = 7$ $\frac{168}{7} = 24$ $24 \times 3 = 72$
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PAPER 2

Q1	$181 - 29 = 152$ $152 - 99 = 53$ $99 - 53 = 46$	Q2	$5.45\text{p.m.} - 12.45 = 6.08 \times 7 = 42.56$ $6.08 \times \frac{15}{60} = 1.52$ $42.56 + 1.52 = 44.08$ 44l 80ml
Q3	$180 - 19 - 19 = 142$ $360 - 90 - 60 - 142 = 68^\circ$	Q4	$5u + 20u + 24u = 49u$ $10u = 3l$ $49u = 3 \times \frac{49}{10}$ $= 14.7l$
Q5	(a) True (b) False	Q6	$90 \times 4 = 360$ $360 - 15 = 345$ $345 + 85 + 62 = 492$ $\frac{492}{4+2} = 82$
Q7	$15u + 7u = 22u$ $22u = 396$ $1u = 18$ $25u = \$450$	Q8	$180 - 113 = 67$ $180 - 108 = 72$ $180 - 72 - 67 = 41$ $180 - 41 - 41 = 98^\circ$
Q9	$J = (D+3)\text{km/h}$ $K = (D)\text{km/h}$ $D = S \times T = D \text{ km/h} \times 4\text{h} = (4D)\text{km}$ $D = S \times T = (D + 3) \text{ km/h} \times 4\text{h} = (4D + 12)\text{km}$ $\frac{3}{8}M = (4D + 12) \text{ km} - (4D) \text{ km} = 12\text{km}$ $\frac{8}{8} = 12 \times \frac{8}{3} = 32$ $S = \frac{D}{T}$ $= 8\text{km/h}$ $(D+3) \text{ km/h} = 8\text{km/h}$ $D = 8 - 3 = 5 \text{ km/h}$	Q10	$8W + (\text{Circle}) = 357$ $\text{Circle} = 2W \times 3.14 = 6.28$ $6.28W + 8W = 357\text{cm}$ $= 14.28W$ $W = \frac{357}{14.28} = 25\text{cm}$
Q11	a) $(8000 - 7000) \div 5 = 200$ $80\% = 5800 + 7000 + 7200 = 20\,000$ $20\% = 5000$ b) $3u = 7400 + 7200 + 6400$ $= 21\,000$ $4u = 21\,000 \times \frac{4}{3} = 28\,000$ $100 \times \frac{28\,000}{25\,000} = 112\%$	Q12	$8s = 6l = 24u$ $(5 \times 4u) + (8 \times 3u) = 44u$ $44u = 9.68\text{m}$ $1u = 0.22\text{m}$ $125 + 9l - 8s + 5l = 4s + 4l$ $= (4 \times 4u) + (4 \times 3u) = 28u$ $28u = 6.16\text{m}$

Q13	$40 \times 30 \times 50 = 60l$ $= 80 \times 30 = 2400\text{cm}$ $40 \times 30 = 1200$ $\frac{2400}{1200} = 2$ $X = 3u$ $Y = 2u$ $3 + 2 = 5$ $\frac{2}{5} \times 60 = 24l$	Q14	a) $\frac{114}{4} = 28$ $28 \times 2 = 56$ $\frac{6}{4} \times \frac{22}{7} \times 56 = 264\text{cm}$ $264\text{cm} + 280\text{cm} = 544\text{cm}$ b) $\frac{6}{4} \times 28 \times 28 \times \frac{22}{7} = 3696$ $8 \times 28^2 = 6272$ $6272 + 3696 = 9968\text{cm}^2$
Q15	(a) 9:16 (b) March to April (c) 26	Q16	a) $QU = RV = QR \rightarrow \text{equilateral} = 60^\circ$ b) $CTQU = 90 - 60 = 30^\circ$ $CQTV = \frac{180-30}{2} = 75$ $CVTS = 90 - 75 = 15^\circ$ c) $CTQU = 70 - 30 = 40^\circ$
Q17	(a) $7u - 3u = 4u = 48$ $1u = 12$ $14u = 168$ b) $168 - 114 = 54$ $\frac{114}{19} = 6$ $\frac{54}{6} = 9$		



CEDAR PRIMARY SCHOOL

CLASS TEST TWO

MATHEMATICS

PRIMARY 6

Date: 12 May 2023

11 QUESTIONS

TOTAL TIME: 50 min

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
5. Do not use correction fluid/tape or highlighters
6. You are allowed to use a calculator.

Name : _____ ()

Class : Primary 6 _____

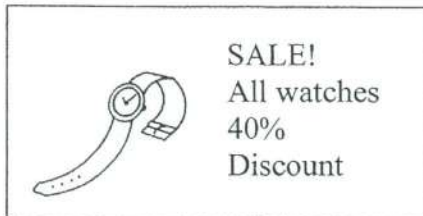
Parent's Signature: _____

Marks
35

This booklet consists of **10** printed pages.

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question. Write your answers in the spaces provided. For each question which require units, give your answers in the units stated. (10 marks)

1.



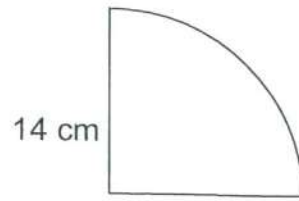
The usual price of a watch is \$520. What is the sale price?

Ans: \$ _____

2. Every customer has to pay an 8% GST on their purchases. The price of a television set without GST is \$850. What is the amount a customer must pay for buying the television set?

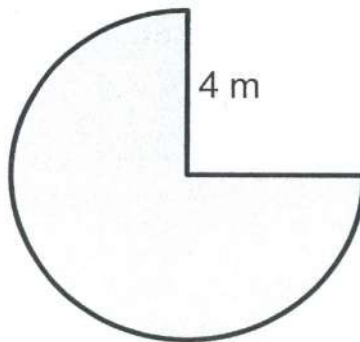
Ans: \$ _____

3. Find the perimeter of the quadrant shown. (Take $\pi = \frac{22}{7}$)



Ans: _____ cm

4. Find the area of the three-quarter circle shown in the diagram. (Take $\pi = 3.14$)



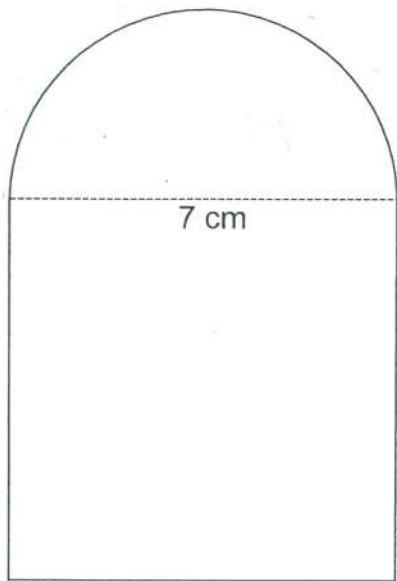
Ans: _____ m²

5. During a sale, a bookseller reduced the price of his books by 10%. The sale price of a book is \$13.50. What was the usual price of this book?

Ans: \$_____

For Questions 6 to 11, show your working clearly in the space provided for each question. Write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question. (25 marks)

6. The figure below is made up of a square and a semi-circle. Find the area and perimeter of the figure, correct to 2 decimal places. (Take $\pi = 3.14$)



Ans: Area = _____ [2]

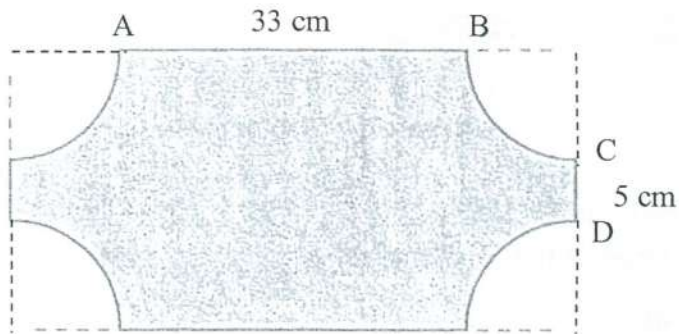
Perimeter = _____ [1]

7. Three brothers, Alan, Bala and Chandra, share a sum of money. Alan has 40% of the sum of money. Bala got 4 times as much as Chandra. Bala has \$60 more than Alan.
- (a) What percentage of the sum of money did Chandra get?
(b) How much money did Alan get?

Ans: (a) _____ [2]

(b) _____ [2]

8. The figure below shows a rectangle with its corners cut off. The ratio of the length of the rectangle to its breadth is $12 : 5$. Each of the 4 identical corners that has been cut off is a quarter circle. The length AB is 33 cm and the length of CD is 5 cm.

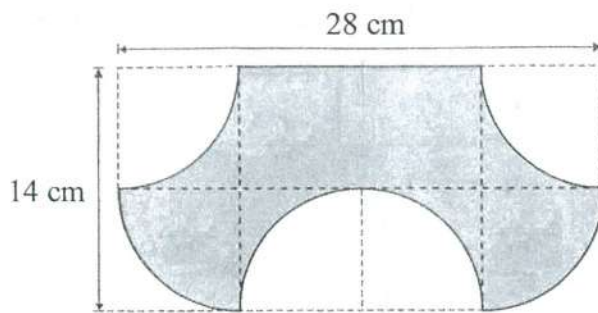


- (a) What is the radius of each quarter circle?
(b) What is the perimeter of the shaded part? (Take $\pi = 3.14$)
(Give your answer correct to 1 decimal place.)

Ans: (a) _____ [2]

(b) _____ [2]

9. The shaded figure shown below is formed by a straight line and 6 identical quarter circles.

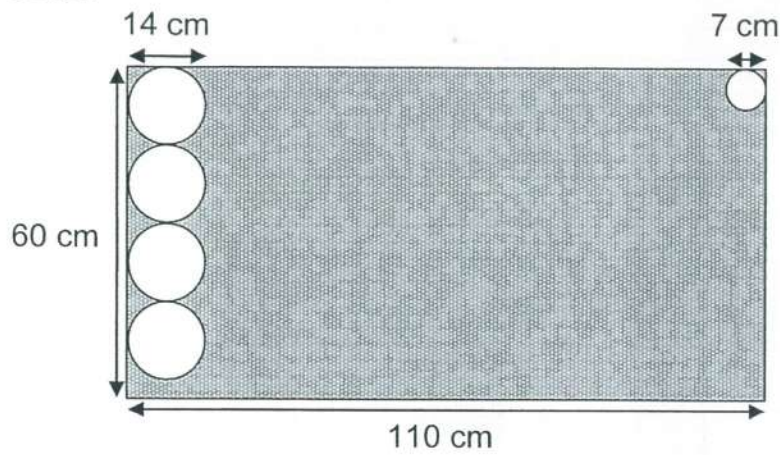


- (a) Find the radius of each quarter circle.
 (b) Find the area of the shaded figure. (Take $\pi = \frac{22}{7}$)

Ans: (a) _____ [1]

(b) _____ [3]

10. Ali had a piece of rectangular paper. He cut out four bigger circles with a diameter of 14 cm at first. Then, he cut as many smaller circles with a diameter of 7 cm as he could.

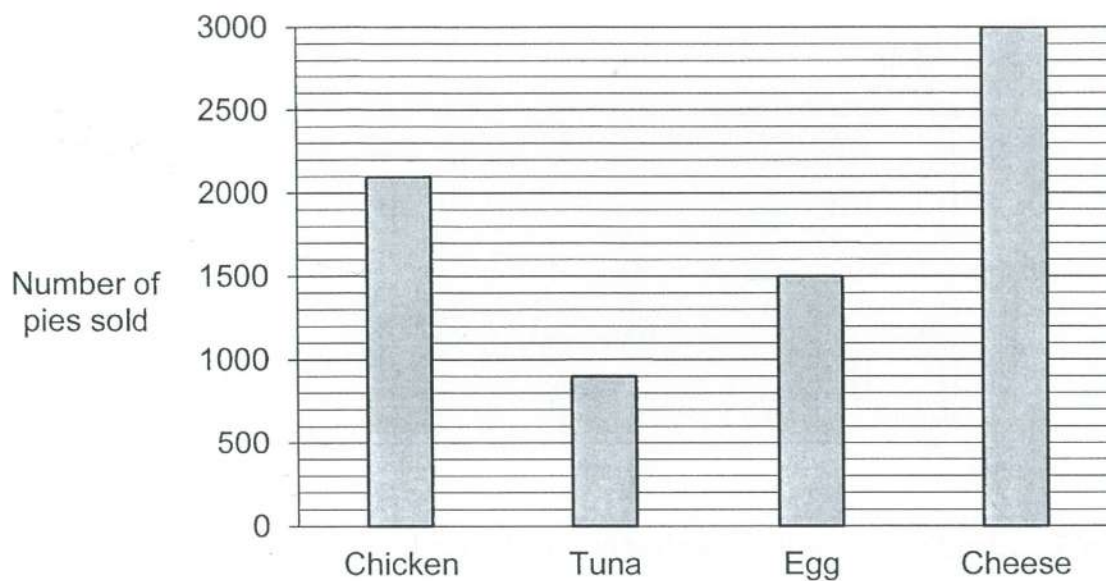


- (a) What was the greatest number of smaller circles Ali could cut?
(b) Find the area of the paper left. Take $\pi = \frac{22}{7}$.

Ans: (a) _____ [2]

(b) _____ [3]

11. The bar graph below shows the number of each type of pie sold at a bakery in a week.



- (a) What percentage of pies sold at the bakery were tuna pies?
- (b) All the cheese pies were packed into boxes of 3 or 5. There were 718 boxes in all. How many boxes contained 5 cheese pies?

Ans: (a) _____ [2]

(b) _____ [3]

END OF CLASS TEST



CEDAR PRIMARY SCHOOL

CLASS TEST TWO

MATHEMATICS

PRIMARY 6

Date: 12 May 2023

11 QUESTIONS

TOTAL TIME: 50 min

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
5. Do not use correction fluid/tape or highlighters
6. You are allowed to use a calculator.

Name : _____ ()

Class : Primary 6 _____

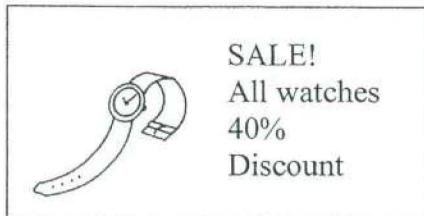
Parent's Signature: _____

Marks
35

This booklet consists of **10** printed pages.

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question. Write your answers in the spaces provided. For each question which require units, give your answers in the units stated. (10 marks)

1.



The usual price of a watch is \$520. What is the sale price?

$$60\% \times 520 = \frac{60}{100} \times 520$$

$$= \$312$$

Ans: \$ 312

2. Every customer has to pay an 8% GST on their purchases. The price of a television set without GST is \$850. What is the amount a customer must pay for buying the television set?

$$100\% \rightarrow \$850$$

$$1\% \rightarrow \$850 \div 100$$

$$= \$8.50$$

$$8\% \rightarrow \$8.50 \times 8$$

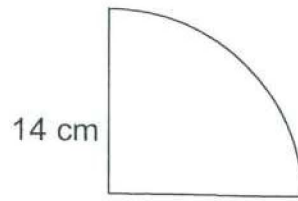
$$= \$68$$

$$108\% \rightarrow \$850 + \$68$$

$$= \$918$$

Ans: \$ 918

3. Find the perimeter of the quadrant shown. (Take $\pi = \frac{22}{7}$)



$$\begin{aligned}\text{Perimeter} &= \frac{1}{4} \times 2 \times \frac{22}{7} \times 14 + 14 \times 2 \\ &= 22 + 28 \\ &= 50 \text{ cm}\end{aligned}$$

Ans: 50 cm

4. Find the area of the three-quarter circle shown in the diagram. (Take $\pi = 3.14$)



$$\begin{aligned}\text{Area} &= \frac{3}{4} \times 3.14 \times 4 \times 4 \\ &= 37.68 \text{ m}^2\end{aligned}$$

Ans: 37.68 m²

5. During a sale, a bookseller reduced the price of his books by 10%. The sale price of a book is \$13.50. What was the usual price of this book?

$$90\% \rightarrow \$13.50$$

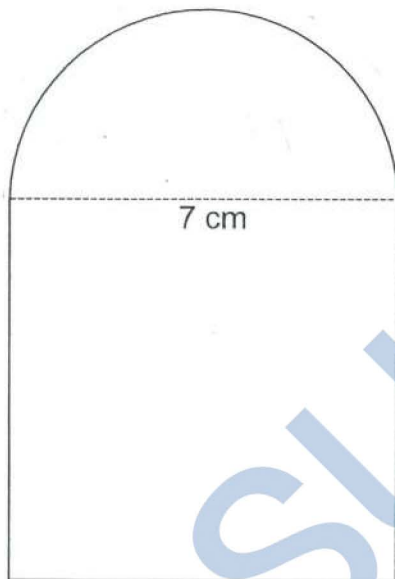
$$10\% \rightarrow \$13.50 \div 9$$
$$= \$1.50$$

$$100\% \rightarrow \$1.50 \times 10$$
$$= \$15$$

Ans: \$ 15

For Questions 6 to 11, show your working clearly in the space provided for each question. Write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question. (25 marks)

6. The figure below is made up of a square and a semi-circle. Find the area and perimeter of the figure, correct to 2 decimal places. (Take $\pi = 3.14$)



$$\begin{aligned}\text{Radius} &= \frac{1}{2} \times 7 \text{ cm} \\ &= 3.5 \text{ cm}\end{aligned}$$

$$\begin{aligned}\text{Area} &= 7 \times 7 + \frac{1}{2} \times 3.14 \times 3.5 \times 3.5 \\ &= 68.2325 \text{ cm}^2 \\ &= 68.23 \text{ cm}^2 \text{ (2 d. p.)}\end{aligned}$$

$$\begin{aligned}\text{Perimeter} &= \frac{1}{2} \times 3.14 \times 7 + 7 \times 3 \\ &= 31.99 \text{ cm}\end{aligned}$$

Ans: Area = 68.23 cm² [2]

Perimeter = 31.99 cm [1]

7. Three brothers, Alan, Bala and Chandra, share a sum of money. Alan has 40% of the sum of money. Bala got 4 times as much as Chandra. Bala has \$60 more than Alan.

(a) What percentage of the sum of money did Chandra get?

(b) How much money did Alan get?

Alan : Bala : Chandra

$$= 2 : \boxed{3}$$

$$= 10 : \boxed{15}$$

$$= 10 : \boxed{12} : \boxed{3}$$

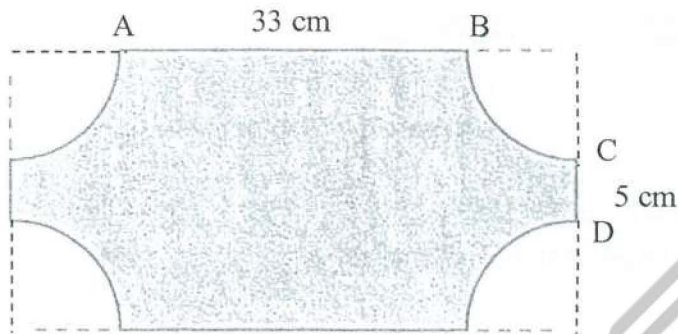
(a) Chandra = $\frac{3}{25} \times 100\%$
= 12%

(b) 2 units = \$60
10 units = $\$60 \times 5$
= \$300

Ans: (a) 12% [2]

(b) \$300 [2]

8. The figure below shows a rectangle with its corners cut off. The ratio of the length of the rectangle to its breadth is 12 : 5. Each of the 4 identical corners that has been cut off is a quarter circle. The length AB is 33 cm and the length of CD is 5 cm.



- (a) What is the radius of each quarter circle?
 (b) What is the perimeter of the shaded part? (Take $\pi = 3.14$)
 (Give your answer correct to 1 decimal place.)

Length	Breadth
$33 + 2u$	$5 + 2u$
[12]	[5]

$$60 + 24u = 165 + 10u$$

$$14u = 165 - 60$$

$$= 105$$

$$1u = 105 \div 14$$

$$= 7.5$$

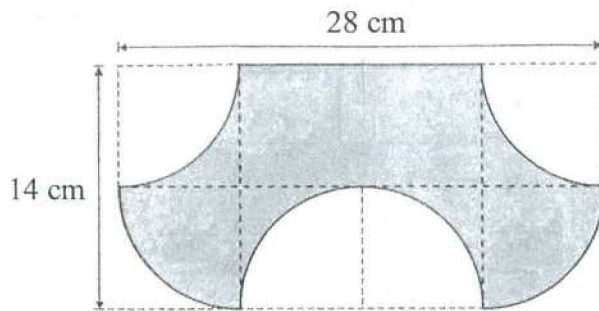
(a) Radius = 7.5 cm

(b) Perimeter = $2 \times 3.14 \times 7.5 + 33 \times 2 + 5 \times 2$
 $= 123.1 \text{ cm}$

Ans: (a) 7.5 cm [2]

(b) 123.1 cm [2]

9. The shaded figure shown below is formed by a straight line and 6 identical quarter circles.



- (a) Find the radius of each quarter circle.
 (b) Find the area of the shaded figure. (Take $\pi = \frac{22}{7}$)

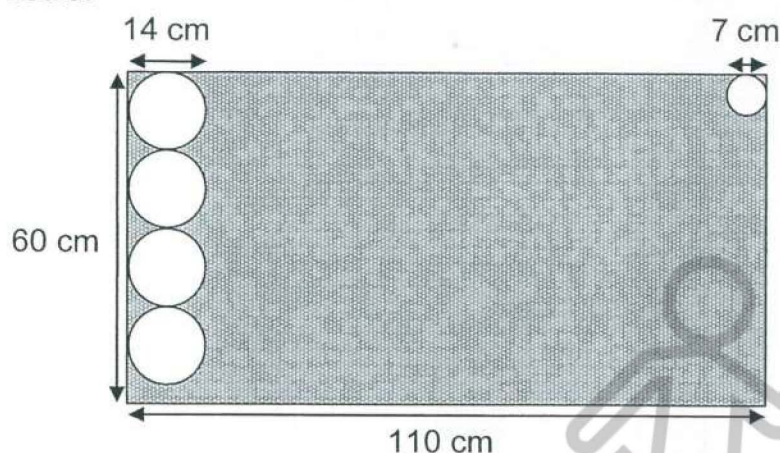
(a) Radius = $14 \text{ cm} \div 2$
 $= 7 \text{ cm}$

(b) Area = $6 \times 7 \times 7 - \frac{1}{2} \times \frac{22}{7} \times 7 \times 7$
 $= 217 \text{ cm}^2$

Ans: (a) 7 cm [1]

(b) 217 cm² [3]

10. Ali had a piece of rectangular paper. He cut out four bigger circles with a diameter of 14 cm at first. Then, he cut as many smaller circles with a diameter of 7 cm as he could.



- (a) What was the greatest number of smaller circles Ali could cut?
 (b) Find the area of the paper left. Take $\pi = \frac{22}{7}$.

(a) $(110 - 14) \div 7 = 13 \text{ R } 5 \text{ cm}$

$60 \div 7 = 8 \text{ R } 4 \text{ cm}$

Number of smaller circles = 13×8
 $= 104$

(b) Area of rectangle = 110×60
 $= 6600 \text{ cm}^2$

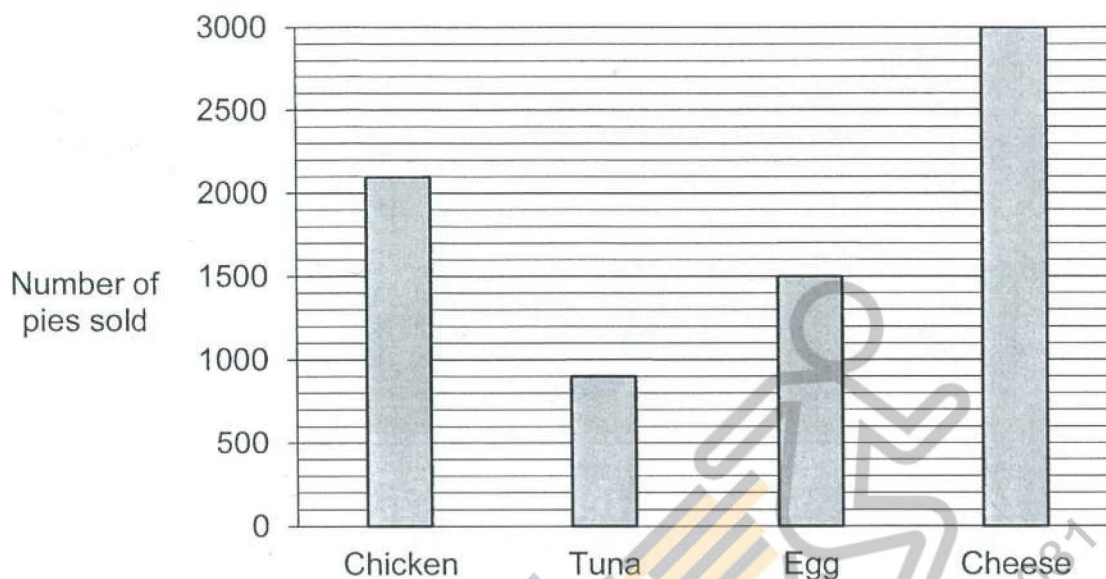
Area of circles = $4 \times \frac{22}{7} \times 7 \times 7 + 104 \times \frac{22}{7} \times \frac{7}{2} \times \frac{7}{2}$
 $= 616 + 4004$
 $= 4620 \text{ cm}^2$

Area left = $6600 - 4620$
 $= 1980 \text{ cm}^2$

Ans: (a) 104 [2]

(b) 1980 cm² [3]

11. The bar graph below shows the number of each type of pie sold at a bakery in a week.



- (a) What percentage of pies sold at the bakery were tuna pies?
- (b) All the cheese pies were packed into boxes of 3 or 5. There were 718 boxes in all. How many boxes contained 5 cheese pies?

(a) $\text{Percentage} = \frac{9}{75} \times 100\%$
 $= 12\%$

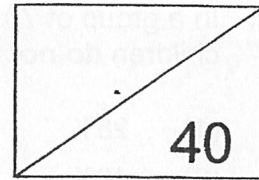
(b) $3 \times 718 = 2154$
 $3000 - 2154 = 846$
 $846 \div 2 = 423$

Ans: (a) 12% [2]

(b) 423 [3]

END OF CLASS TEST

Red Swastika School
Primary 6
Class Test 2
Mathematics



Name: _____ () Date: 3 May 2023

Class: Pr 6 / _____ Duration: 50 minutes
 (Use of calculators is not allowed)

Parent's Signature: _____

Questions 1 to 10 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and write your answer on the Optical Answer Sheet. (20 marks)

- 1 The number of red apples to the number of green apples in a basket is 2 : 5
 What fraction of all the apples in the basket are red?

(1) $\frac{2}{5}$

(2) $\frac{5}{2}$

(3) $\frac{2}{7}$

(4) $\frac{7}{2}$

()

- 2 The usual price of a book is \$18. During a sale, there was a 10% discount.
 Find the discount given.

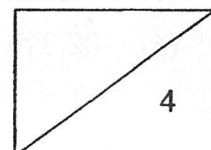
(1) \$1.80

(2) \$2.00

(3) \$16.20

(4) \$19.80

()

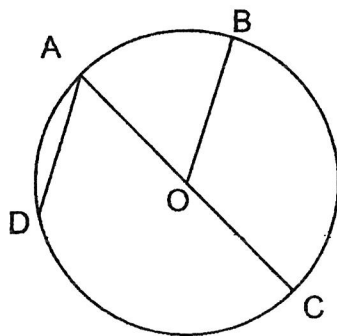


- 3 In a group of 70 children, 42 of them wore glasses. What percentage of the children **do not** wear glasses?

- (1) 28%
 (2) 40%
 (3) 42%
 (4) 60%

()

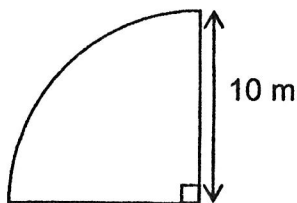
- 4 The figure below shows a circle with centre O. Which of the following shows the correct way to find the area of the circle?



- (1) $\pi \times AD \times AC$
 (2) $\pi \times AD \times OA$
 (3) $\pi \times OC \times AC$
 (4) $\pi \times OA \times OC$

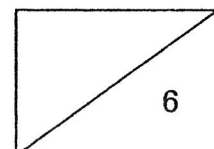
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- 5 Find the perimeter of the quarter-circle. (Take $\pi = 3.14$)



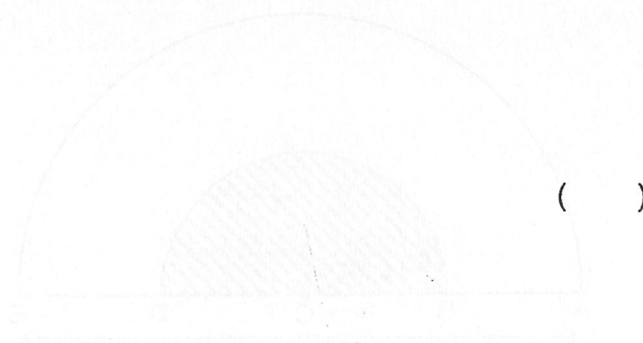
- (1) 15.7 m
 (2) 35.7 m
 (3) 78.5 m
 (4) 82.8 m

()



- 6 Mr Ng spent 80% of his money on a laptop and had \$1200 left. How much did Mr Ng spend on the laptop?

- (1) \$300
(2) \$1500
(3) \$4800
(4) \$6000



- 7 A box contains beads of three different colours. $\frac{1}{4}$ of the beads are black. The ratio of the number of yellow beads to green beads is 1 : 5. What is the ratio of the number of black beads to yellow beads to green beads in the simplest form?

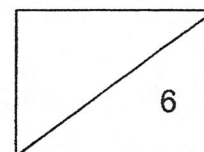
- (1) 1 : 1 : 5
(2) 2 : 1 : 5
(3) 3 : 1 : 5
(4) 3 : 2 : 10

()

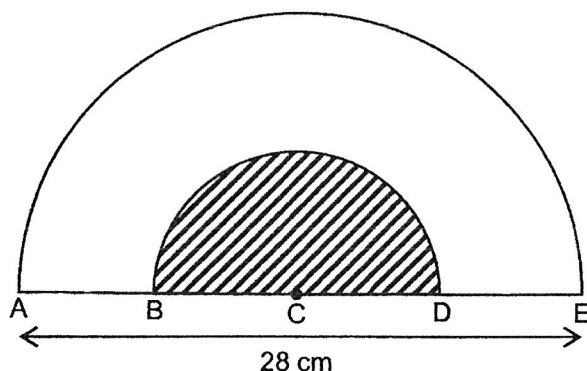
- 8 Penny wanted to mix red and blue paint to make purple paint. The ratio of the amount of red paint used to the amount of blue paint used was 3 : 4. Penny used 120 l of red paint, how much purple paint did she make?

- (1) 90 l
(2) 160 l
(3) 210 l
(4) 280 l

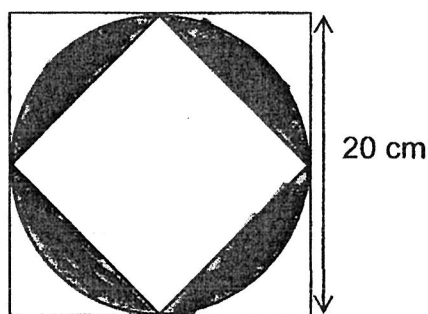
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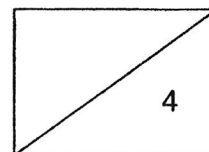
- 9 The figure is made up of 2 semi-circles. $AB = BC = CD = DE$. Find the area of the **unshaded** part. (Take $\pi = \frac{22}{7}$)



- (1) 77 cm^2
 (2) 231 cm^2
 (3) 308 cm^2
 (4) 462 cm^2 ()
- 10 The figure below shows a circle and two squares. One side of the larger square is 20 cm. Find the area of the shaded parts in terms of π .



- (1) $(20\pi - 100) \text{ cm}^2$
 (2) $(20\pi - 200) \text{ cm}^2$
 (3) $(100\pi - 100) \text{ cm}^2$
 (4) $(100\pi - 200) \text{ cm}^2$ ()



Questions 11 to 16 carry 2 marks each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

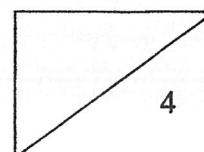
· (12 marks)

-
- 11 Pete scored a total of 90 marks for his Math test in October. This was a 20% increase from the marks he scored for his Math test in May. How many marks did he score for his Math test in May?

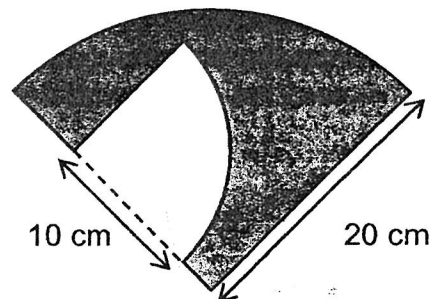
Ans: _____

-
- 12 A baker baked 30 curry buns and some kaya buns in the morning. After selling 5 curry buns and 30% of the kaya buns, she had a total of 67 buns left. How many kaya buns did the baker bake?

Ans: _____

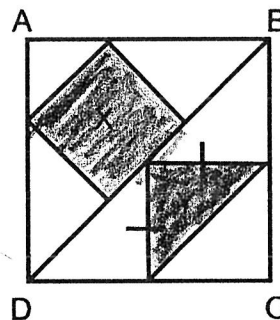


- 13 Timothy had a piece of cardboard in the shape of a quarter-circle. He cut out a smaller quarter-circle from the cardboard as shown below. Find the perimeter of the remaining piece of cardboard. (Take $\pi = 3.14$)

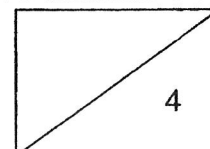


Ans: _____ cm

- 14 ABCD is a square. The shaded parts, square X and right-angled triangle Y, have corners lying on either sides of square ABCD or on the line BD. What is the ratio of the area of square X to the area of triangle Y?



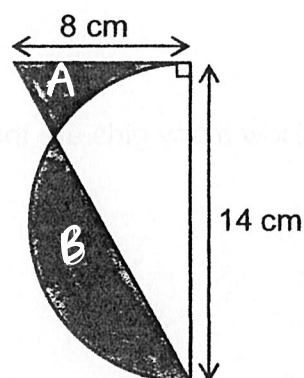
Ans: _____



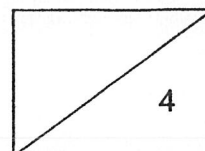
- 15 After a discount of 20%, the price of an electric iron is \$160. Shoppers who pay by cash are given an additional discount of \$10. What is the total percentage discount given to shoppers who paid by cash for the electric iron?

Ans: _____ %

- 16 The figure below is made up of a semicircle and a right-angled triangle. The diameter of the semi-circle is 14 cm. The area of the shaded region A is 16 cm². Find the area of the shaded region B.
(Take $\pi = \frac{22}{7}$)



Ans: _____ cm²



Questions 17 and 18 carry 4 marks each. Show your working clearly and write your answers in the spaces provided. (8 marks)

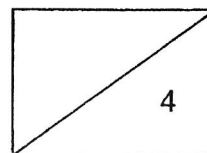
- 17 There is an equal number of students in the Robotics Club and the Art Club. There are 40 more boys than girls in the Robotics Club. There are 20 more girls than boys in the Art Club. 55% of all the students in the Robotics Club and Art Club are boys.

- (a) How many girls are there in both the clubs?

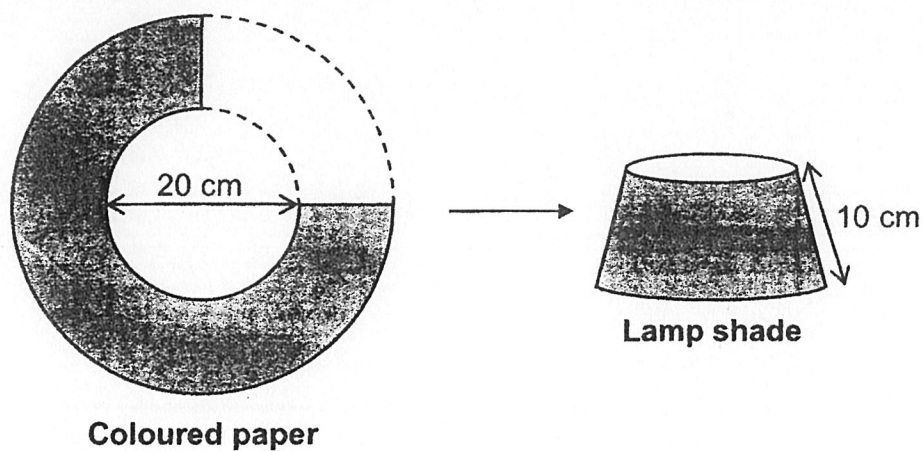
Ans: _____ [3m]

- (b) How many girls are there in the Robotics Club?

Ans: _____ [1m]



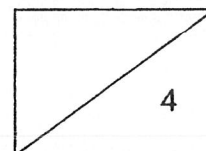
- 18 A quarter of a piece of circular coloured paper had been cut out as shown below.



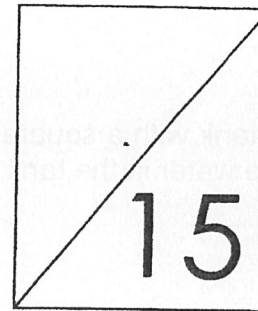
The remaining piece of coloured paper was then folded to form a lamp shade without overlapping. What is the area of the lamp shade in terms of π ?

Ans: _____ [4m]

End of Paper



Red Swastika School
Primary 6 Mathematics Milestone Check (5)
Topic: Volume of Solids and Liquids



Name: _____ ()

Class: Pr 6 _____

Date: _____

For Questions 1 to 5, each question carries 2 marks. All workings must be shown clearly.

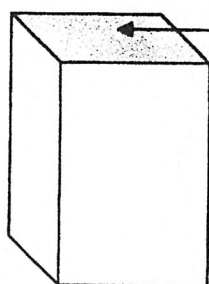


1. A cube has a volume of 125 cm^3 . What is the length of the cube?

Ans: _____ cm



- 2 Find the height of the cuboid below if its volume is 960 cm^3 .



Shaded area = 64 cm^2

Ans: _____ cm

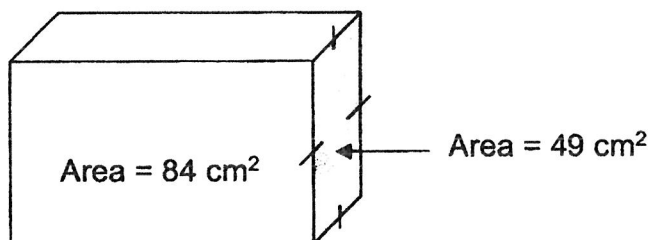


3. A tank with a square base of side 50 cm, contains 10 l of water. Find the height of the water in the tank.

Ans: _____ cm



4. Find the volume of the cuboid.



Ans: _____ cm³



5. How many 2-cm cubes can be cut from a wooden block measuring 50 cm by 40 cm by 15 cm?

Ans: _____

Question 6 carries 5 marks. All workings must be shown clearly.

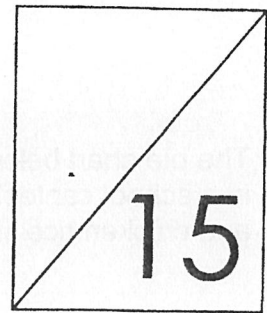


6. Water flows from a small tap at a rate of 30 litres per minute and a big tap at a rate of 40 litres per minute. If the 2 taps are turned on at the same time for 5 minutes, the water from both taps can fill a tank, 50 cm long and 40 cm wide, completely. What is the height of the tank?

Ans: _____

-----**THE END**-----

Red Swastika School
Primary 6 Mathematics Milestone Check (6)
Topic: Pie Charts



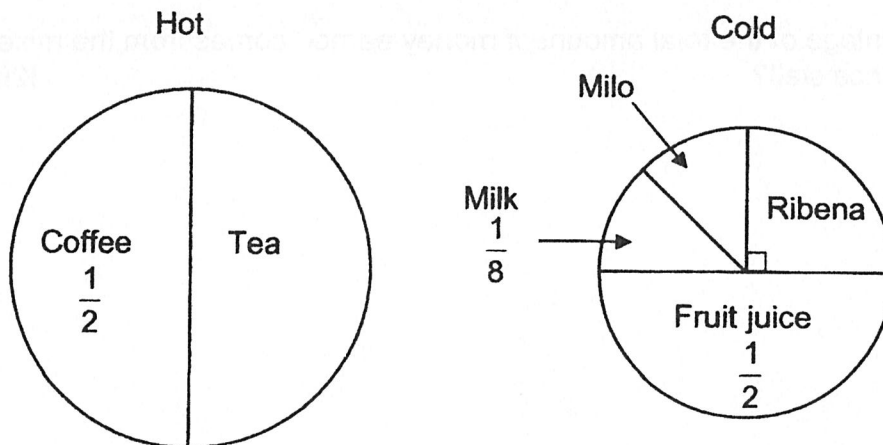
Name: _____ ()

Class: Pr 6 _____

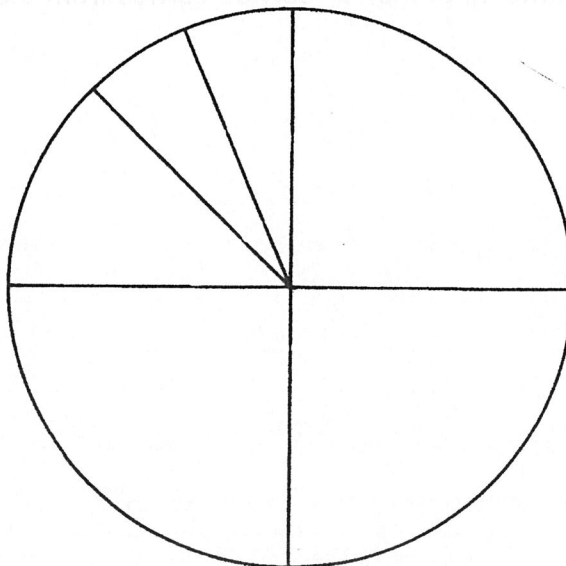
Date: _____

Question 1 carries 1 mark, Questions 2 to 6 carry 2 marks each and Question 7 carries 4 marks. Show your working clearly and write your answer in the spaces provided.

1. The pie charts below show the different types of drinks the drink stall vendor sells. He sells an equal number of hot and cold drinks.

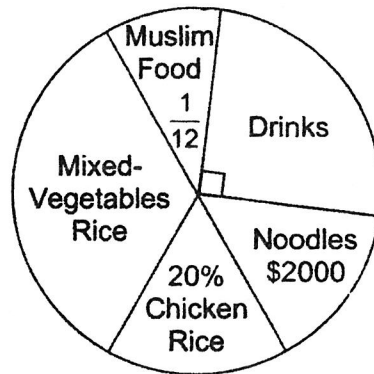


Combine the total number and types of drinks (hot and cold) he sells. Then complete the following pie chart to show all the different types of drinks that he sells. Label the drinks in the chart below clearly. [1m]





The pie chart below represents the average amount of money earned by 5 food stalls in a school canteen. Half of the amount earned comes from mixed-vegetable rice stall and chicken rice stall. Use the information below to answer questions 2 to 7.



2. What percentage of the total amount of money earned comes from the mixed-vegetables rice stall? [2m]

Ans: _____%

3. What fraction of the total amount of money earned comes from the noodles stall? [2m]

Ans: _____

4. What was the ratio of the amount of money earned by the Muslim food stall to the amount of money earned by the drinks stall? [2m]

Ans: _____

5. How much money was earned from all the 5 food stalls? [2m]

Ans: \$ _____

6. How much more money was earned by the mixed-vegetables rice stall than the chicken rice stall? [2m]

Ans: \$ _____

7. Mr Lee sells one plate of Muslim food for \$1.00. If he increases the selling price by 50% per plate and sold the same number of plates of Muslim food, how much money will he collect? [4m]

Ans: _____

-----**THE END**-----

YEAR : 2023
 LEVEL : PRIMARY 6
 SCHOOL : RED SWASATIKA SCHOOL
 SUBJECT : MATHEMATICS
 TERM : PAPER 2

CLASS TEST 2

Q1	3	Q2	1	Q3	2	Q4	4	Q5	2
Q6	3	Q7	2	Q8	4	Q9	2	Q10	4

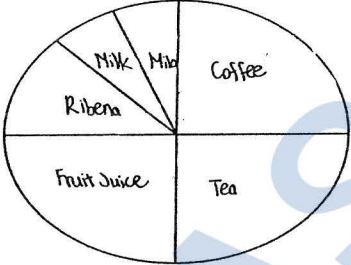
Q11	$120\% = 90$ $100\% = \frac{90}{120} \times 100$ $= 75$
Q12	$30 - 5 = 25$ $67 - 25 = 42$ $70\% = 42$ $100\% = \frac{42}{70} \times 100$ $= 60$
Q13	$3.14 + 20 + 15.7 + 10 + 10$ $= 51.4 + 15.7 + 10 + 10$ 87.1
Q14	$4 : 5 : 9$ $16 : 20 : 36$ $1 : 3 : 4$ $9 : 27 : 36$ Ans : $16 : 9$
Q15	$80\% = 160$ $100\% = \frac{160}{80} \times 100$ $= 200$ $\frac{50}{200} \times 100$ $= 25\%$
Q16	$B + C = \frac{1}{2} \times \frac{22}{7} \times 7 \times 7 = 77$ $A + C = \frac{1}{2} \times 14 \times 8$ $= 56$ $56 - 16 = 40$ $B = 77 - 40 = 37\text{cm}^2$
Q17	(a) Boys : $2u + 50$ (55%) Girls : $2u + 30$ (45%) $10\% = 20$ $45\% = \frac{20}{10} \times 45 = 90$ b) $2u + 30 = 90$ $2u = 90 - 30 = 60$ Robotic girls = 30

Q18	$\text{Area of shaded} = \frac{3}{4} \text{ big} - \text{small}$ $= \frac{3}{4} \times \pi \times 20 \times 20 - \frac{3}{4} \times \pi \times 10 \times 10$ $= 225\pi$
-----	---

VOLUME OF SOLIDS AND LIQUID

Q1	$\sqrt[3]{125} = 5$	Q2	$960 \div 64 = 15\text{cm}$
Q3	$\frac{10000}{50 \times 50} = 4$	Q4	$84 \div 7 = 12$ $12 \times 7 \times 7 = 588$
Q5	$50 \div 2 = 25$ $40 \div 2 = 20$ $15 \div 2 = 7.5$ $25 \times 20 \times 7 = 3500$	Q6	$40 + 30 = 70$ $70 \times 5\text{min} = 350$ $V = L \times B \times H$ $350 = 50 \times 40 \times x$ $x = 350 \div 2000$ ≈ 0.175 $= 1.75\text{cm}$

PIE CHARTS

Q1		Q2	30%
Q3	$\frac{60}{60} - \frac{4}{60} - \frac{15}{60} - \frac{12}{60} - \frac{18}{60}$ $= \frac{11}{60}$	Q4	$M : D$ $5 : 25$ $1 : 5$
Q5	$\frac{1}{6} = 2000$ $\frac{6}{6} = 2000 \times 6 = \12000	Q6	$100\% : 12000$ $10\% = \$1200$
Q7	$\frac{50}{100} \times 1 = 0.50$ $\frac{1}{12} \div 2 = \frac{1}{24}$ $\frac{1}{12} + \frac{1}{24} = \frac{1}{8}$ $100 \div 8 = 12.5$ $\frac{12000}{100} \times 12.5 = \1500		

2
END



RAFFLES GIRLS' PRIMARY SCHOOL
WEIGHTED ASSESSMENT 2 2023
MATHEMATICS
PRIMARY 6

Name: _____ ()

Form Class: P6 _____

Math Teacher: _____

Date: 2 May 2023

Duration: 50 minutes

Total Score (Out of 30 marks)	
Parent's Signature	

INSTRUCTIONS TO CANDIDATES

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer **ALL** questions and show all working clearly.
4. The use of calculator is allowed for this paper.

Questions 1 and 2 carry 1 mark each and Questions 3 to 9 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. [16 marks]

1. What is the missing number in the box?

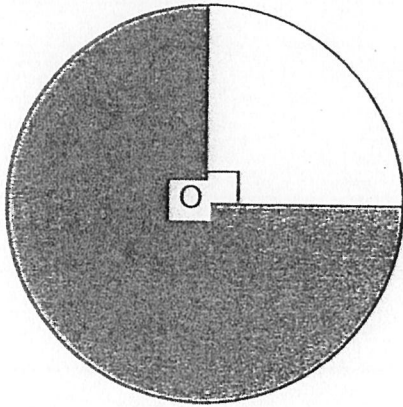
$$18 : \boxed{} = 3 : 4$$

Ans: _____ [1]

2. There are 60 marbles in a box. 16 marbles are blue and the rest are green. What is the ratio of the number of blue marbles to the number of green marbles?
Give your answer in the simplest form.

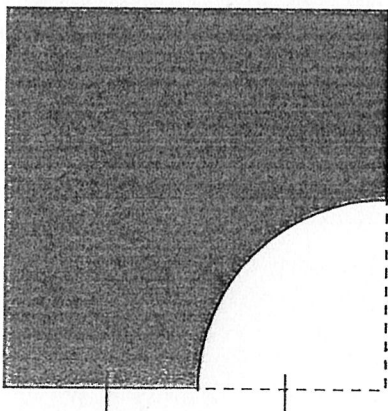
Ans: _____ [1]

3. In the figure, O is the centre of the circle with a diameter of 12 cm. Find the area of the shaded part.
(Take $\pi = 3.14$)



Ans: _____ cm² [2]

4. The figure is made up of a square and a quadrant. The length of the square is 42 cm. Find the perimeter of the shaded part.
(Take $\pi = \frac{22}{7}$)



Ans: _____ cm [2]

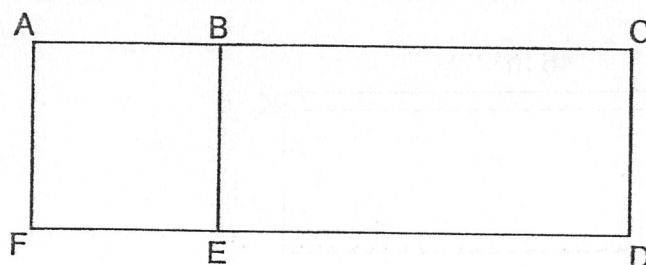
5. The ratio of the number of men to women to children at a concert was 5 : 12 : 8. There were 1200 people at the concert altogether. How many children were at the concert?

Ans: _____ [2]

6. In a fruit stall, $\frac{2}{7}$ of the number of apples is equal to $\frac{1}{6}$ of the number of oranges. What is the ratio of the number of apples to the number of oranges?

Ans: _____ [2]

7. Figure ACDF is made up of a square and a rectangle. The ratio of the length of AB to the length of BC is 1 : 2. The perimeter of rectangle ACDF is 160 cm. Find the area of square ABEF.

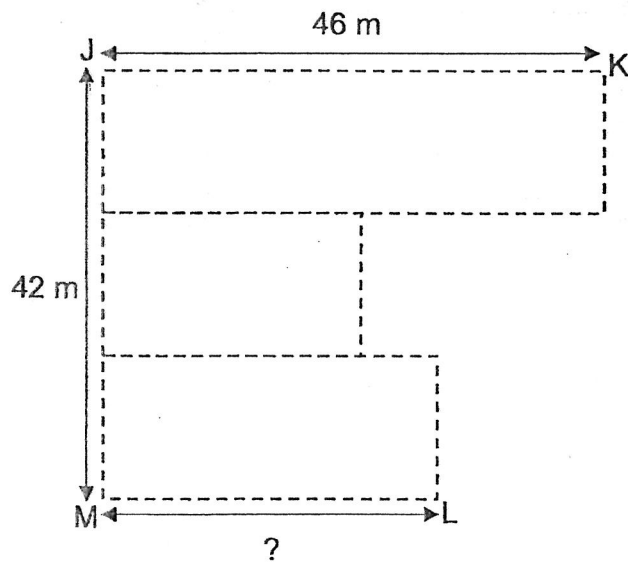


Ans: _____ cm² [2]

8. The ratio of the number of pies to the number of buns at a bakery was 8 : 3. After 203 pies were sold, the ratio of the number of pies to the number of buns became 3 : 2. How many buns were there at the bakery?

Ans: _____ [2]

9. A plot of land is divided into three rectangular fields of equal width. $JM = 42\text{ m}$ and $JK = 46\text{ m}$. The fields are fenced using 252 m of fencing, indicated by ----- in the figure. Find the length of ML .



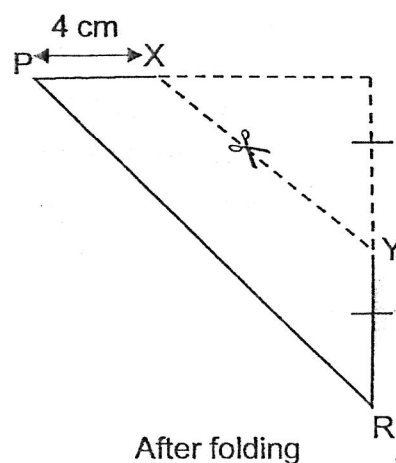
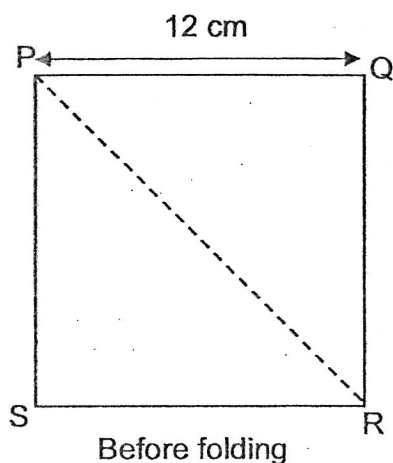
Ans: _____ m [2]

For questions 10 to 13, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question. [14 marks]

10. Salim baked some cookies. He ate $\frac{1}{4}$ of the cookies. The rest of the cookies were given to Alex, Bala and Caili in the ratio of 9 : 5 : 4. The number of cookies Alex received was 145 more than the number of cookies Caili received. How many cookies did Salim bake?

Ans: _____ [3]

11. Lily has a piece of square paper, PQRS. She folded the paper into 2 equal halves along PR as shown. She then cut off the corners along XY. Find the area of the remaining paper.



Ans: _____ [3]

12. Alan, Ben, and Chandra shared the cost of a present for their cousin. Alan paid $\frac{1}{5}$ of the total amount. Ben paid $\frac{3}{5}$ of the total amount Alan and Chandra paid.

(a) What is the ratio of the amount Alan paid to the total amount Ben and Chandra paid?

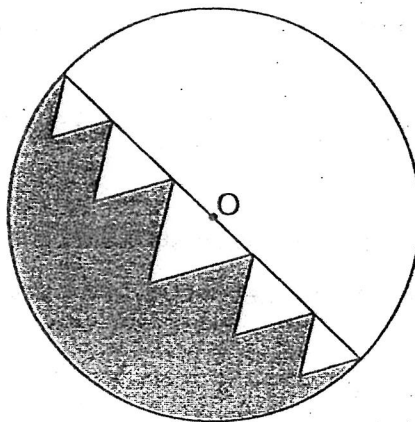
Give your answer in the simplest form.

(b) Given that the present cost \$224, how much did Chandra pay for the present?

Ans: (a) _____ [1]

(b) _____ [3]

13. The figure is made up of 5 equilateral triangles and a circle. O is the centre of the circle with diameter 30 cm.



- (a) Find the circumference of the circle.
- (b) Find the perimeter of the shaded part. Round your answer to the nearest centimetre.
- (Take $\pi = 3.14$)

Ans: (a) _____ [1]

(b) _____ [3]

END OF PAPER

Page 10 of 10

WEIGHTED ASSESSMENT 2

Q1	24	Q2	Blue : 16 Green : $60 - 16 = 44$ B : G 16 : 44 4 : 11 The ratio of the number of blue marbles to the number of green marbles is 4 : 11
Q3	$\frac{3}{4} \times 3.14 \times 6 \times 6 = 84.78\text{cm}^2$	Q4	Arc length of quadrant = $\frac{1}{4} \times \frac{22}{7} \times 42$ = 33 Perimeter = $33 + 21 + 21 + 42 + 42$ = 159cm
Q5	M : W : C 5 : 12 : 8 $12u + 5u + 8u = 25u$ $25u = 1200$ 1u : 48 8u = 384	Q6	$\frac{2}{7}A = \frac{1}{6}$ Orange $\frac{2}{7}A = \frac{2}{12}$ Orange A : O 7 : 12 The ratio of the number of apples to the number of oranges is 7 : 12
Q7	Total = $1u + 1u + 1u + 1u + 2u + 2u$ = 8u $8u = 160$ 1u = 20 Area of square ABEF = 20×20 = 400cm^2	Q8	Before P : B 8 : 3 16 : 6 After 3 : 2 9 : 6 $16u - 9u = 7u$ $7u = 203$ 1u = 29 6u = 174 buns
Q9	$46 + 14 + 14 + 46 = 120$ $120 + 14 + 14 = 148$ $252 - 148 = 104$ Length of ml = $\frac{104 - 14 - 14}{2}$ = 38ml	Q10	A : B : C 9 : 5 : 4 $9u - 4u = 5u$ $5u = 145$ 1u : 29 $9u + 5u + 4u = 18u$ $18u = 522$ 3P = 522 1P = 174 4p = 696 cookies

Q11	<p>Area after folding = $\frac{12 \times 12}{2}$</p> <p>= 72</p> <p>Area of triangle A = $\frac{1}{2} \times 6 \times 8$</p> <p>= 24</p> <p>$72 - 24 = 48$</p> <p>$48 \times 2 = 96$</p> <p>The area of the remaining paper is 96cm^2</p>	Q12	<p>(a)</p> <table border="1"> <tr> <th>A : B + C</th><th>Total</th><th>B : A + C</th><th>Total</th></tr> <tr> <td>1 : 4</td><td>5</td><td>3 : 5</td><td>8</td></tr> <tr> <td>8 : 32</td><td>40</td><td>15 : 25</td><td>40</td></tr> </table> <p>$40u = 224$</p> <p>$1u = 5.6$</p> <p>$17u = 5.6 \times 17$</p> <p>= 95.2</p> <p>Ans : (a) 1 : 4</p> <p>(b) \$95.20</p>	A : B + C	Total	B : A + C	Total	1 : 4	5	3 : 5	8	8 : 32	40	15 : 25	40
A : B + C	Total	B : A + C	Total												
1 : 4	5	3 : 5	8												
8 : 32	40	15 : 25	40												
Q13	<p>(a) $3.14 \times 30 = 94.2$</p> <p>(b) $30 \times 2 = 60$</p> <p>Arc length of semicircle = $\frac{1}{2} \times 3.14 \times 30$</p> <p>= 47.1</p> <p>Perimeter of shaded part = $47.1 + 60$</p> <p>≈ 107.1</p> <p>= 107</p> <p>Ans :</p> <p>(a) 94.2cm</p> <p>(b) 107cm</p>														

END

Pg 3



2023 PRIMARY 6 COMMON-TIMED PRACTICE

Name: _____ () Date: 10 May 2023

Class: Primary 6 ()

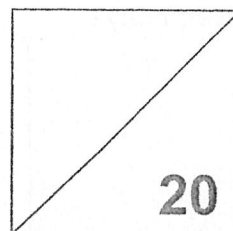
Duration: 1 hour

Parent's Signature: _____

Marks: _____ / **100**

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS PAPER 1 (BOOKLET A)



INSTRUCTIONS TO CANDIDATES

1. Write your name, class and register number.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided.
6. You are **not** allowed to use a calculator.

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4).

Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(20 marks)

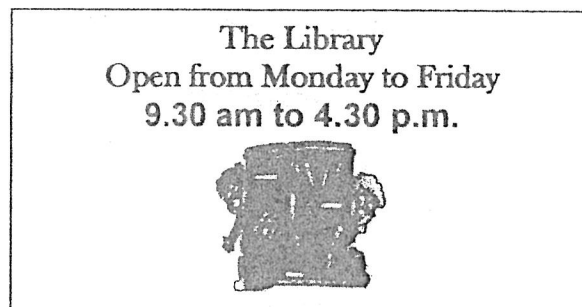
1. Round 4.728 to 2 decimal places.

- (1) 4.80
- (2) 4.73
- (3) 4.72
- (4) 4.70

2. In 924.53, what does the digit 5 stand for?

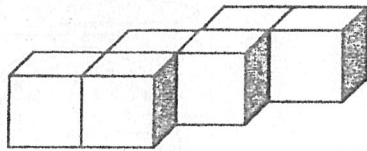
- (1) 5 tenths
- (2) 5 hundredths
- (3) 5 ones
- (4) 5 tens

3. The opening hours of a school library are shown below. How long is the library open each day?

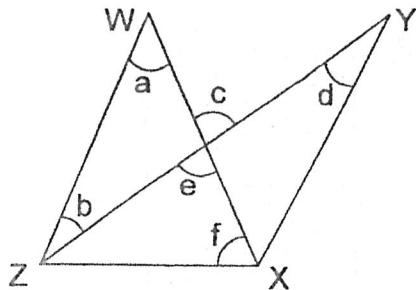


- (1) 6 h
- (2) 6 h 30 min
- (3) 7 h
- (4) 7 h 30 min

4. The solid is made up of 2-cm cubes. Find its volume.



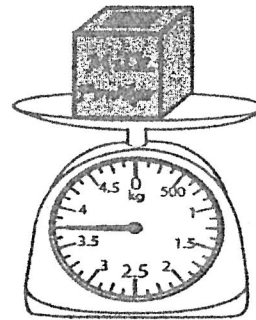
- (1) 12 cm^3
(2) 24 cm^3
(3) 36 cm^3
(4) 48 cm^3
5. In the figure shown, WX and YZ are straight lines. Which of the two angles given in the figure are equal?



- (1) $\angle a$ and $\angle f$
(2) $\angle b$ and $\angle d$
(3) $\angle c$ and $\angle e$
(4) $\angle e$ and $\angle f$

6. Find the mass of the packet of milk powder.

- (1) 3.7 kg
- (2) 3.8 kg
- (3) 3.65 kg
- (4) 3.75 kg



7. Which of the following figures completes the other symmetrical half of the figure?

W		
	H	
		A
	T	

(1)

		W
	H	
A		
	T	

(2)

W		
	H	
		A
	T	

(3)

W		
	H	
		A
	T	

(4)

		W
	H	
A		
	T	

8. In a bus of 40 passengers, 24 are women. What is the ratio of the number of men to the number of women?

- (1) 2 : 3
- (2) 2 : 5
- (3) 3 : 2
- (4) 3 : 5

9. Ben received \$120 a month. He spends \$80 and saves the remainder. What fraction of his expenditure is his savings?


- (1) $\frac{2}{3}$
- (2) $\frac{1}{2}$
- (3) $\frac{2}{5}$
- (4) $\frac{1}{3}$

10. Express 2.5 as a percentage.

- (1) 2.5%
- (2) 25%
- (3) 250%
- (4) 2500%

11. How much will Mary have to pay for 4 slices of cake during the sale?

SALE!!
 20% off from the 3rd slice of cake onwards!

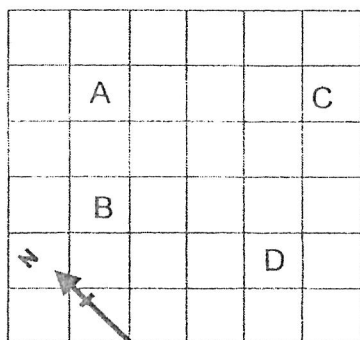


Usual price: \$3.50 per slice

- (1) \$14
 (2) \$12.60
 (3) \$11.90
 (4) \$8.40
12. Michael bought h twenty-cent stamps and 5 fifty-cent stamps. How much did he spend on the stamps? Give your answer in terms of h .

- (1) $\$(20h + 250)$
 (2) $\$270h$
 (3) $\$ \frac{270h}{100}$
 (4) $\$ \frac{20h + 250}{100}$

13. In the diagram, A, B, C and D are four points on the ground. In what direction is C from A?



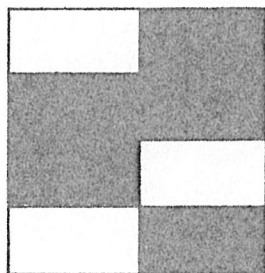
- (1) East
 (2) South
 (3) South-East
 (4) South-West

14. Study the pattern carefully.

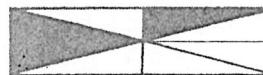
P Q R S P P Q Q R R S S P P P Q Q Q R R R S S S ...

What is the 105th letter?

- (1) P
(2) Q
(3) R
(4) S
15. The ratio of the area of square to the area of rectangle is 4 : 1.
Find the ratio of the total shaded area of the square and the rectangle to the total area of the square.



Square



Rectangle

- (1) 12 : 16
(2) 13 : 20
(3) 18 : 25
(4) 23 : 32

End of Booklet A
Go on to Booklet B



2023 PRIMARY 6 COMMON-TIMED PRACTICE

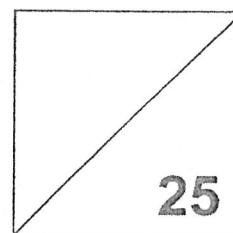
Name: _____ () Date: 10 May 2023

Class: Primary 6 ()

Parent's Signature: _____

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS PAPER 1 (BOOKLET B)



INSTRUCTIONS TO CANDIDATES

1. Write your name, class and register number.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Show your workings clearly as marks are awarded for correct working.
6. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
7. Do not use correction tape or highlighters for your solutions.
8. You are **not** allowed to use a calculator.

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided.
For questions which require units, give your answers in the units stated. (5 marks)

16. Write down all the common multiples of 6 and 9 that is less than 40.

Ans: _____

17. Find the value of $\frac{3}{4} \div 36$

Give your answer as a fraction in the simplest form.

Ans: _____

18. What is the value of $54 - 63 \div 7 + 150 \div 6 \times 60$?

Ans: _____

19. Express $\frac{3}{20}$ as a decimal

Ans: _____

20. Find the value of $2 - 1\frac{1}{3} + 2\frac{3}{4}$

Give your answer as a fraction in the simplest form.

Ans: _____

Questions 21 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

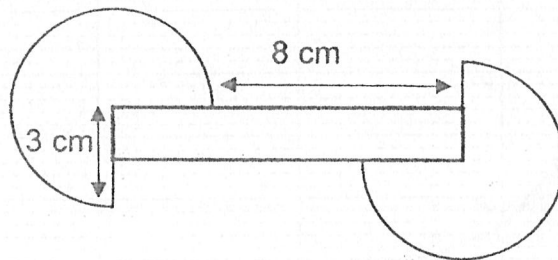
21. The average of 3 consecutive even numbers is 12. What is the smallest number?

Ans: _____

22. Abel wrote the numbers 1 to 99 on cards for game. How many times did he write the digit 9?

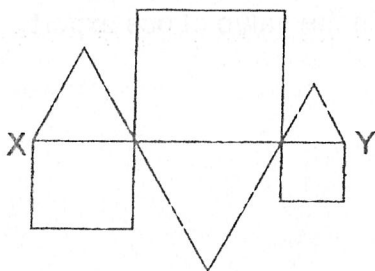
Ans: _____

23. The figure is made up a rectangle and two $\frac{3}{4}$ circles. The radius of the circle is twice the width of the rectangle. Find the perimeter of the figure.
(Take $\pi = 3.14$)



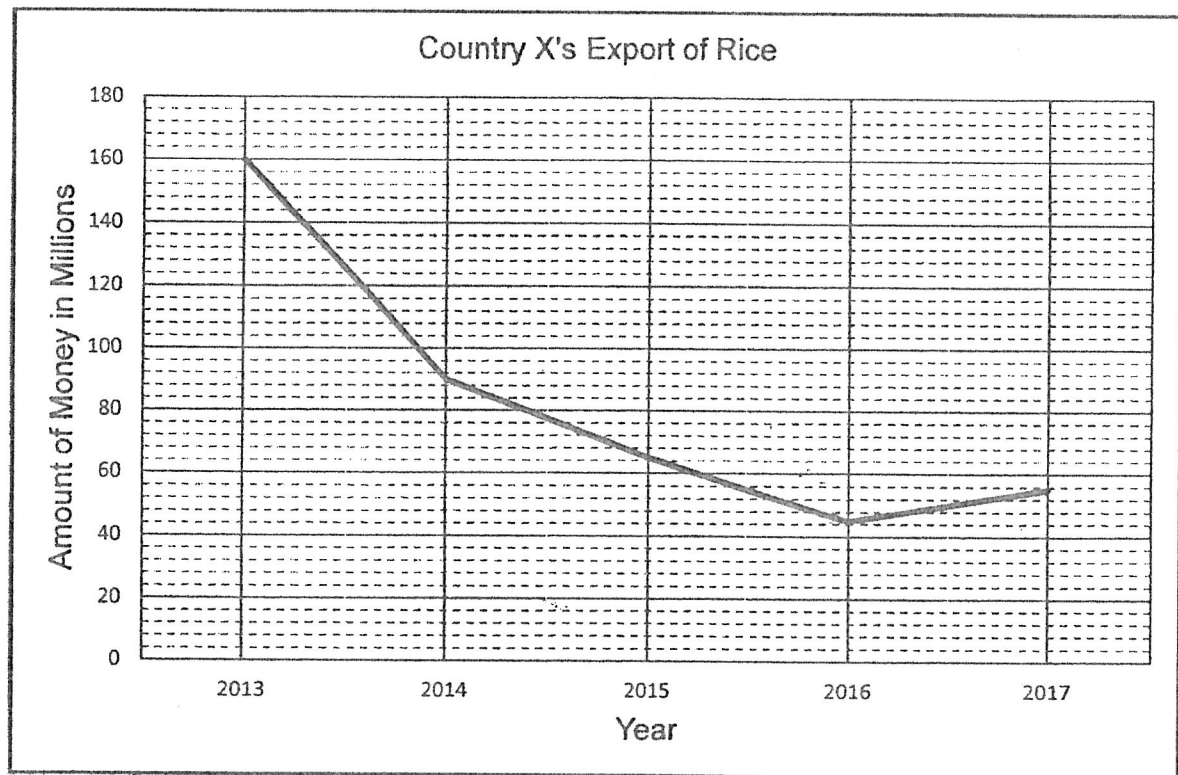
Ans: _____ cm

24. The figure below is formed using 3 squares and 3 equilateral triangles. The length of the straight line XY is 17 cm. Find the perimeter of the figure.



Ans: _____ cm

25. The line graph shows Country X's export of rice to Singapore for the past 5 years.



- (a) What is the value of Country X's export of rice in Year 2017?

Ans: _____ million dollars

- (b) During which 1-year period was the decrease in the value of rice export the smallest?

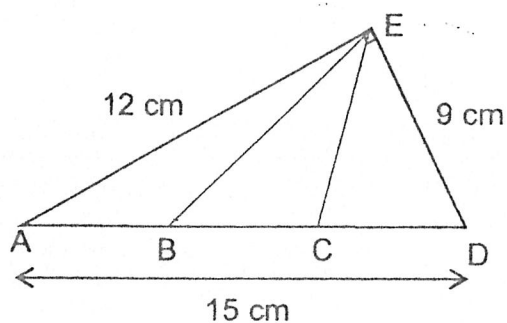
Ans: Year _____ to Year _____

26. Keith parked his car for 4 hours and 15 minutes. How much did he have to pay for carpark charges?

Rate	Parking fees
First $\frac{1}{2}$ hour	\$3.00
Each subsequent 1 hour or part thereof	\$1.50

Ans: \$ _____

27. The figure shows a right-angled triangle, ADE. $AB = BC = CD$. What is the area of triangle EBC?



Ans: _____ cm^2

28. Kumar bought a watch at a discount of 20%. Its usual price was \$250 before GST. Find the 8% GST of the discounted price.

Ans: \$ _____

29. Paula had 12 bookmarks. She sold 3 of them at \$5*f* and the rest at \$*f* each. How much did she collect in terms of *f*?

Ans: \$ _____

30. Mrs Tan baked some muffins. If she gives 4 to each of her pupils, she will have 6 muffins remaining. If she gives 5 muffins to each of her pupils, there is no remainder. How many muffins did Mrs Tan bake?

Ans: _____

End of Booklet B

End of Paper 1



2023 PRIMARY 6 COMMON-TIMED PRACTICE

Name: _____ () Date: 10 May 2023

Class: Primary 6 ()

Duration: 1 hour 30 minutes

Parent's Signature: _____

MATHEMATICS PAPER 2

55

INSTRUCTIONS TO CANDIDATES

1. Write your name, class and register number.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Show your workings clearly as marks are awarded for correct working.
6. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
7. Do not use correction tape or highlighters for your solutions.
8. You are allowed to use a calculator.

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

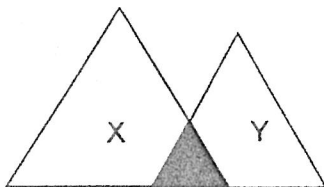
1. Express 6h as a percentage of 90 min.

Ans: _____%

2. A wooden plank is 1.8 m long, 0.6 m wide and 2 cm thick. What is its volume?

Ans: _____cm³

3. The figure below is made up of 2 overlapping triangles, X and Y. The ratio of the shaded area to the area of Triangle X is 3 : 11. The ratio of the shaded area to the area of Triangle Y is 4 : 11. What is the ratio of the shaded area to the total unshaded area of the figure?

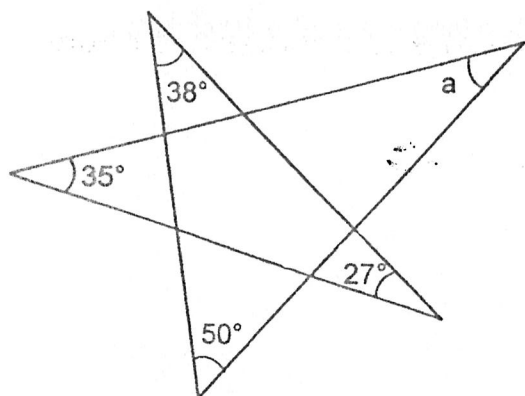


Ans: _____

4. Renny is 16 years younger than her cousin. In 4 years' time, their total age will be 48 years. How old is Renny now?

Ans: _____ years old

5. The figure, not drawn to scale, is formed using five straight lines. Find $\angle a$.



Ans: _____ $^\circ$

For questions 6 to 17, show your working clearly in the space provided for each question and write your answers in the spaces provided.

The number of marks available is shown in brackets [] at the end of each question or part-question. (45 marks)

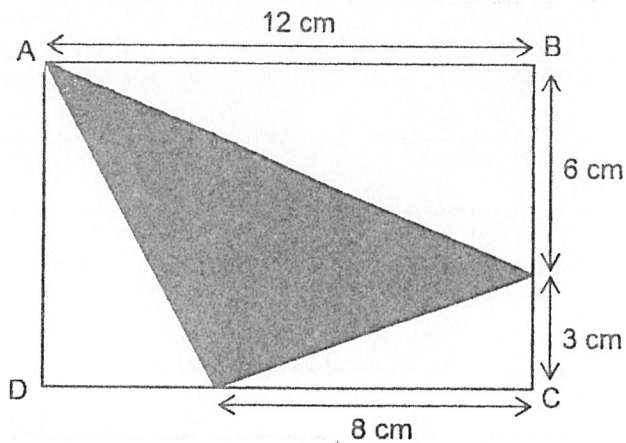
6. Shawn had \$90 more than Abigail. If Abigail gave Shawn \$15, Shawn would have thrice as much money as Abigail. How much money did Shawn have at first?

Ans: _____ [3]

7. Four children take 2h to wrap 8 gift boxes. How long will it take 10 children to wrap 20 boxes?

Ans: _____ [3]

8. In the figure below, ABCD is a rectangle. Find the area of the shaded part.



Ans: _____ [3]

9. Rachel needs to make some wrist bands for a fund-raising event. She made $\frac{1}{5}$ of the wrist bands on the first day and 45 on the second day. The number of wrist bands that she made on the second day was $\frac{1}{4}$ more than the number of wrist bands she made on the first day. How many wrist bands does Rachel need to make for the fund-raising event?

Ans: _____ [3]

10. 8 pails of water can fill $\frac{7}{11}$ of a tank. Another 4 pails and 3 jugs are needed to fill the tank completely. How many jugs of water can the tank hold?

Ans: _____ [3]

11. Amelia, Beth and Candy shared a box of beads. Amelia took $\frac{1}{5}$ of the total number of beads and another 12 beads. Beth took $\frac{1}{3}$ of the remaining beads in the box and another 14 beads. Candy took the last 26 beads in the box. How many beads were there in the box at first?

Ans: _____ [4]

12. Farmer Tan used $\frac{3}{8}$ of a rectangular piece of land to grow bananas and $\frac{8}{15}$ of the remainder to grow mangoes. He had 5600 m² of land left. The length of the land was 240 m. Find the breadth of the land.

Ans: _____ [4]

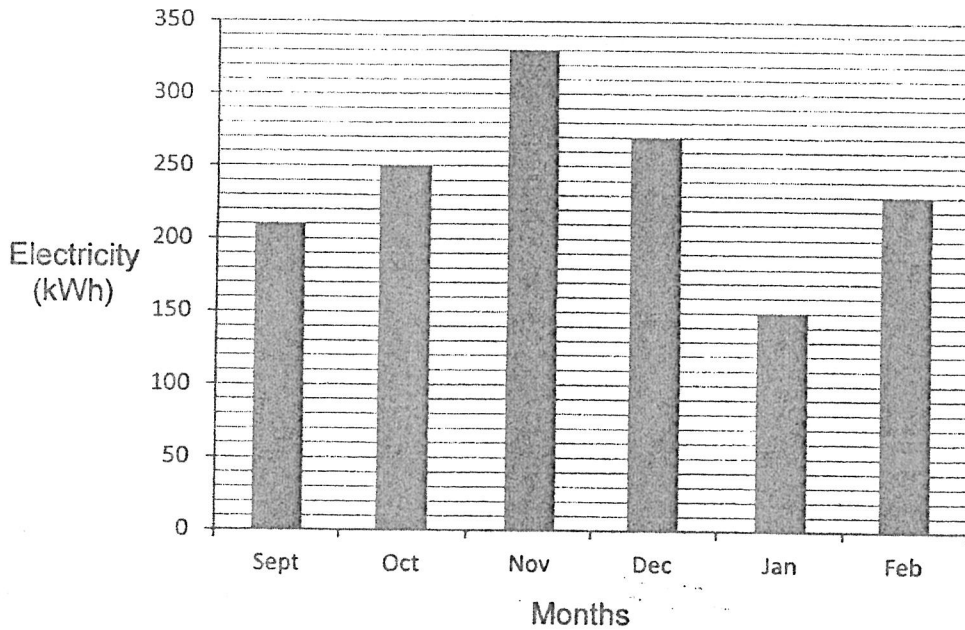
13. Faith is f cm tall. Gerry is twice as tall as Faith. Helen is 24 cm shorter than Gerry.
- (a) What is the average height of the three girls in terms of f ?

Ans: _____ [2]

- (b) If Faith is 75 cm tall, what is the difference between Helen's and Faith's height?

Ans: _____ [2]

14. The graph below shows Mr Abram's electricity consumption from September to February.



- (a) What was the percentage increase/decrease in electricity consumption from October to November?

Ans: (a) _____ [2]

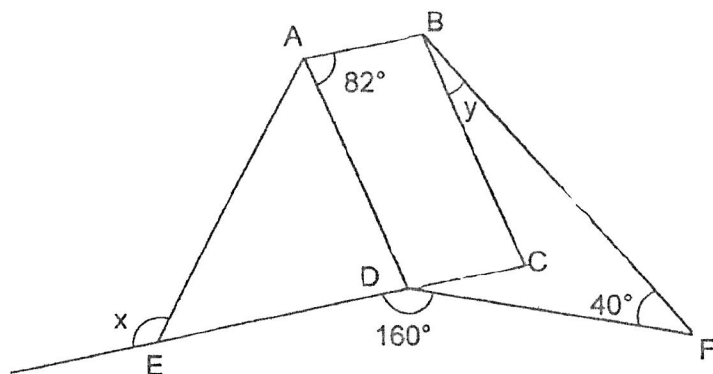
- (b) If the national average consumption was 360 kWh, in which month was Mr Abram's consumption 75% of the national average?

Ans: (b) _____ [2]

15. At a ballet school, 70% of the students were Singaporean students and the rest were foreign students. 75% of the Singaporean students and $\frac{2}{3}$ of the foreign students were female. There were 1200 students at the school. How many more female than male students were there at the ballet school?

Ans: _____ [4]

16. In the diagram below, not drawn to scale, ABCD is a parallelogram. CDE is a straight line and $AD = DE$.



- (a) Find $\angle x$.

Ans: (a) _____ [2m]

- (b) Find $\angle y$.

Ans: (b) _____ [3m]

17. A coin box contained 20-cent coins and 50-cent coins in the ratio 3 : 2. When ten 20-cent coins were taken out, exchanged for 50-cent coins and the money returned into the box, the ratio of the number of 20-cent coins to the number of 50-cent coins was 7 : 10. Find the sum of money in the coin box.

Ans: _____ [5]

End of Paper 2

SCHOOL: TAO NAN SCHOOL

SUBJECT: MATHEMATICS

LEVEL: PRIMARY 6

PAPER: 2023 COMMON-TIMED PRACTICE

PAPER 1

BOOKLET A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	1	3	4	3	4	1	1	2	3
Q11	Q12	Q13	Q14	Q15					
2	4	3	3	4					

BOOKLET B

Q16. 18, 36

Q17. $\frac{1}{48}$

Q18. 555

Q19. 0.15

Q20. $3\frac{5}{12}$

Q21. 10

Q22. 20

Q23. 47.26cm

Q24. 85cm

Q25. (a) 56 million dollars

(b) Year 2015 to Year 2016

Q26. \$9

Q27. 18cm²

Q28. \$16

Q29. \$(14f)

Q30. 30 muffins

PAPER 2

Q1. $6\text{h} = 360\text{min}$

$$\frac{360}{90} \times 100 = 400\%$$

Ans: 400%

Q2. $180 \times 60 \times 2 = 21600$

Ans: 21600cm^2

Q3. S:X S:Y

3:11 4:11

12:44 12:33

$$33 - 12 = 21$$

$$44 - 12 = 32$$

$$21 + 32 = 53$$

Ans: 12:53

Q4. $48 - 4 - 4 = 40$

$$40 - 16 = 24$$

$$24 \div 2 = 12$$

Ans: 12 years old

Q5. $38^\circ + 50^\circ = 88^\circ$

$$88^\circ + 27^\circ = 115^\circ$$

$$180^\circ - 115^\circ - 35^\circ = 30^\circ$$

Ans: 30°

Q6. $\$90 + \$15\$ + \$15 = \$120$

2 units \rightarrow \$120

1 unit \rightarrow \$60

3 units \rightarrow \$180

$$\$180 - \$15 = \$165$$

Ans: \$165

Q7. 4 children \rightarrow 2h \rightarrow 8 gifts

4 children \rightarrow 1h \rightarrow 4 gifts

1 child \rightarrow 1h \rightarrow 1 gift

10 children \rightarrow 1h \rightarrow 10 gifts

10 children \rightarrow 2h \rightarrow 20 gifts

Ans: 2h

Q8. $\frac{1}{2} \times 9 \times 4 = 18\text{cm}^2$

$$\frac{1}{2} \times 8 \times 3 = 12\text{cm}^2$$

$$\frac{1}{2} \times 12 \times 6 = 36\text{cm}^2$$

$$12 \times 9 = 108\text{cm}^2$$

$$108 - (18 + 12 + 36) = 42\text{cm}^2$$

Ans: 42cm^2

Q9. 5 units \rightarrow 45

1 unit \rightarrow 9

20 units \rightarrow 180

Ans: 180 wrist bands

Q10. 7 units \rightarrow 8 pails

3.5 units \rightarrow 4 pails

4 units \rightarrow 4 pails + 3 jugs

0.5 units \rightarrow (4 pails + 3 jugs) - 4 pails = 3 jugs

1 unit \rightarrow 6 jugs

11 units \rightarrow 66 jugs

Ans: 66 jugs

Q11. $14 + 26 = 40$

2 units \rightarrow 40

1 unit \rightarrow 20

3 units \rightarrow 60

$$60 + 12 = 72$$

4 parts \rightarrow 72

1 part \rightarrow 18

Ans: 18 beads

Q12. $\frac{7}{24} \times 240 = 70\text{m}$

$$5600 \div 70 = 80\text{m}$$

Ans: 80m

Q13. (a) $\frac{f+2f+(2f-24)}{3} = \frac{5f-24}{3} \text{ cm}$

Ans: $\frac{5f-24}{3} \text{ cm}$

(b) Helen's height $\rightarrow 2(75) - 24 = 126\text{cm}$

Difference $\rightarrow 126 - 75 = 51\text{cm}$

Ans: 51cm

Q14. (a) $\frac{330-250}{250} \times 100 = 32\%$

Ans: 32% increase

(b) $75\% \times 360 = 270$

Ans: December

Q15. Singaporean students $\rightarrow 70\% \times 1200 = 840$

Foreign students $\rightarrow 1200 - 840 = 360$

Female students $\rightarrow (75\% \times 840) + \left(\frac{2}{3} \times 360\right) = 870$

Male students $\rightarrow 1200 - 870 = 330$

Difference $\rightarrow 870 - 330 = 540$

Ans: 540

Q16. (a) $\angle ADC = 180^\circ - 82^\circ = 98^\circ$

$$\angle ADE = 180^\circ - 98^\circ = 82^\circ$$

$$\angle AED = (180^\circ - 82^\circ) \div 2 = 49^\circ$$

$$\angle x = 180^\circ - 49^\circ = 131^\circ$$

Ans: 131°

(b) $\angle CDF = 180^\circ - 160^\circ = 20^\circ$

$$180^\circ - (20^\circ + 40^\circ) = 60^\circ$$

$$180^\circ - 120^\circ = 60^\circ$$

$$\angle BAD = \angle BCD = 82^\circ$$

$$180^\circ - 82^\circ = 98^\circ$$

$$\angle y = 180^\circ - (98^\circ + 60^\circ) = 22^\circ$$

Ans: 22°

Q17. (Before) 20c:50c (After) 20c:50c

3:2

7:10

24:16

14:20

$$\$0.20 \times 10 = \$2$$

$$\$2 \div \$0.50 = 4$$

10 20c coins were exchanged for 4 50c coins.

$$\$0.20 \times 14 = \$2.80$$

$$\$0.50 \times 20 = \$10$$

$$\$10 + \$2.80 = \$12.80$$

Ans: \$12.80

X
ENP

METHODIST GIRLS' SCHOOL (PRIMARY)

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TIMED PRACTICE 2023 PRIMARY 6 MATHEMATICS

PAPER 1 BOOKLET A

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Shade your answers in the Optical Answer Sheet (OAS) provided.

The use of calculators is **NOT** allowed.

Name: _____ ()

Class: Primary 6. _____

Date: 30 May 2023

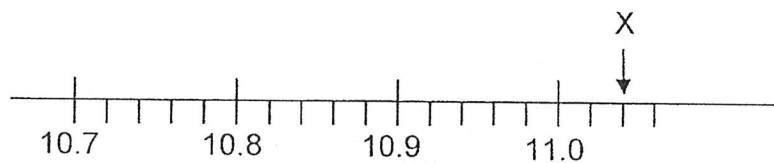
This booklet consists of 6 printed pages including this page.

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet.
(20 marks)

- 1 Which digit in 78.95 is in the tenths place?

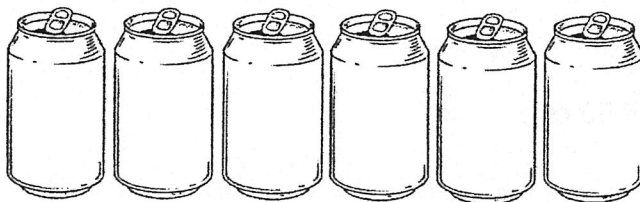
- (1) 5
- (2) 7
- (3) 8
- (4) 9

- 2 Part of a scale is shown below.
What is the value of the reading at X?



- (1) 11.02
- (2) 11.04
- (3) 11.20
- (4) 11.40

- 3 Which of the following is likely to be the total mass of 6 empty 300-ml cans?



- (1) 14 g
- (2) 114 g
- (3) 414 g
- (4) 1140 g

4 Find the value of $\frac{4}{5} \div 12$.

(1) $\frac{1}{15}$

(2) $\frac{5}{17}$

(3) $9\frac{3}{5}$

(4) 15

5 Which of the following fractions has the smallest value?

(1) $\frac{3}{7}$

(2) $\frac{2}{3}$

(3) $\frac{3}{8}$

(4) $\frac{4}{5}$

6 The ratio of Jasmine's age to her brother's age is 2 : 3. Jasmine is 12 years old. What is her brother's age?

(1) 6 years old

(2) 8 years old

(3) 18 years old

(4) 30 years old

7 Express 2 m as a percentage of 50 cm.

(1) 4000%

(2) 400%

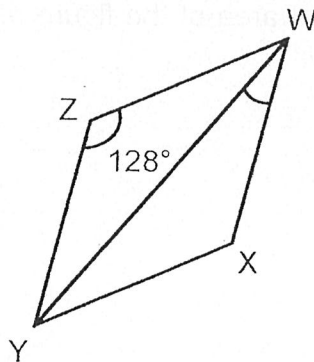
(3) 25%

(4) 4%

- 8 Find the circumference of a circle of diameter 50 m.
(Take $\pi = 3.14$)

- (1) 78.5 m
- (2) 157 m
- (3) 314 m
- (4) 1962.5 m

- 9 In the figure below, not drawn to scale, WXYZ is a rhombus. $\angle WZY = 128^\circ$. Find $\angle YWX$.

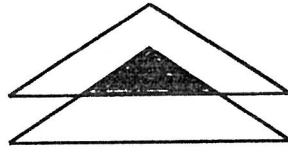


- (1) 26°
 - (2) 31°
 - (3) 52°
 - (4) 64°
- 10 A photocopy machine can print 20 pages every 60 seconds. How long will the machine take to print 50 pages?
- (1) 150 s
 - (2) 70 s
 - (3) 3 s
 - (4) 30 s

- 11 Henry is $\frac{3}{7}$ as heavy as Emma and $\frac{1}{4}$ as heavy as Jimmy. What is the ratio of Henry's mass to the total mass of Emma and Jimmy?

- (1) 3 : 11
- (2) 3 : 14
- (3) 3 : 19
- (4) 3 : 22

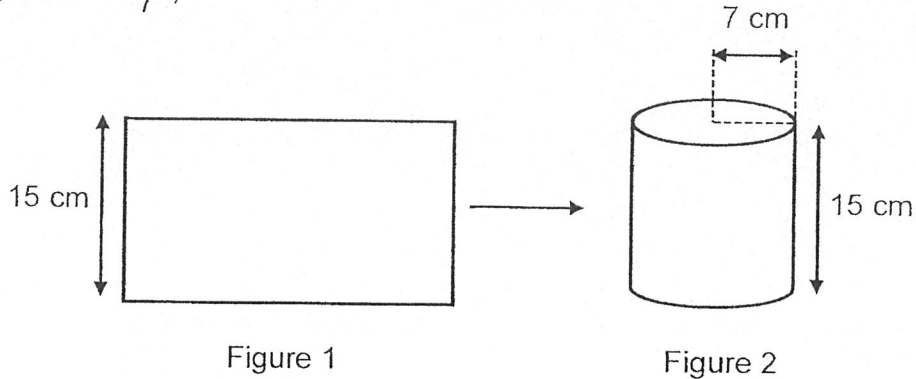
- 12 The figure below shows 2 identical triangles overlapping each other. $\frac{3}{8}$ of each triangle is shaded. Express the unshaded area of the figure as a fraction of the total area of the figure.



- (1) $\frac{3}{13}$
 - (2) $\frac{10}{13}$
 - (3) $\frac{3}{16}$
 - (4) $\frac{10}{16}$
- 13 Jamie received a salary of \$4200 in May. This was a decrease of 40% in salary compared to April. How much salary did she receive in April?
- (1) \$2520
 - (2) \$3000
 - (3) \$5880
 - (4) \$7000

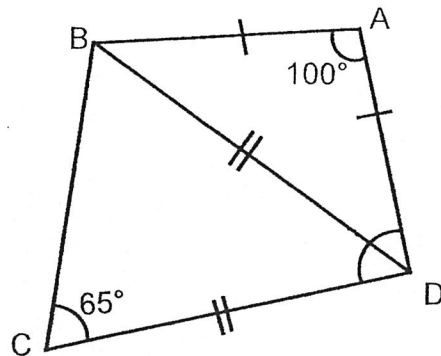
- 14 A rectangular piece of paper, as shown in Figure 1, was bent to become a hollow cylindrical tube of radius 7 cm as shown in Figure 2 below. Find the area of the rectangular piece of paper.

(Take $\pi = \frac{22}{7}$)



- (1) 210 cm²
- (2) 330 cm²
- (3) 660 cm²
- (4) 2310 cm²

- 15 In the figure below, not drawn to scale, $AB = AD$ and $BD = DC$. $\angle BAD = 100^\circ$ and $\angle BCD = 65^\circ$. Find $\angle ADC$.



- (1) 65°
- (2) 80°
- (3) 90°
- (4) 105°

METHODIST GIRLS' SCHOOL (PRIMARY)

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TIMED PRACTICE 2023 PRIMARY 6 MATHEMATICS

PAPER 1 BOOKLET B

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

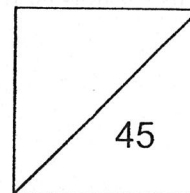
Write your answers in this booklet.

The use of calculators is **NOT** allowed.

Name: _____ ()

Class: Primary 6. _____

Date: 30 May 2023



Parent's Signature: _____

This booklet consists of **8** printed pages including this page.

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided.
For questions which require units, give your answers in the units stated.

(5 marks)

Do not write
in this space

16 Find the value of $9020 \div 5$

Ans: _____

17 Round 24.005 to the nearest tenth.

Ans: _____

18 Find the value of 0.38×50

Ans: _____

(Go on to the next page)

19

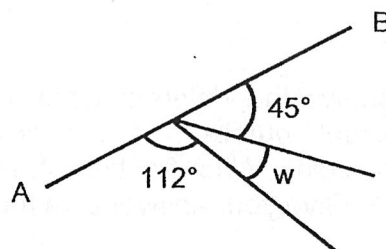
Kenny had 2.06 kg of sand at first. He used 730 g of it. How many kilograms of sand did he have left?

Do not write
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Ans: _____ kg

20

In the figure below, not drawn to scale, AB is a straight line.
Find $\angle w$.



Ans: _____

(Go on to the next page)

Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

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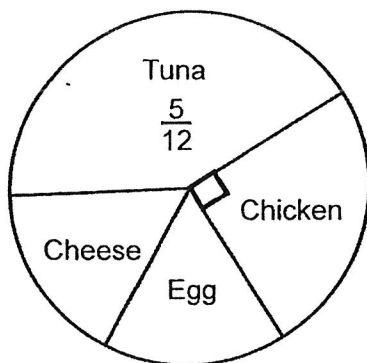
- 21 (a) Find the value of $\frac{1}{4} + \frac{3}{5}$

Ans: (a) _____

- (b) Write down one fraction between $\frac{1}{3}$ and $\frac{2}{3}$

Ans: (b) _____

- 22 The pie chart shows the different types of sandwiches sold at a canteen. An equal number of cheese sandwiches and egg sandwiches were sold. What fraction of the sandwiches sold were egg sandwiches? Give your answer as a fraction in its simplest form.



Ans: _____

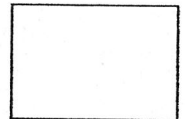
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23

The total mass of 3 similar projectors and 3 similar cameras is 15 kg. Each projector weighs three times as much as a camera. Find the mass of a camera.

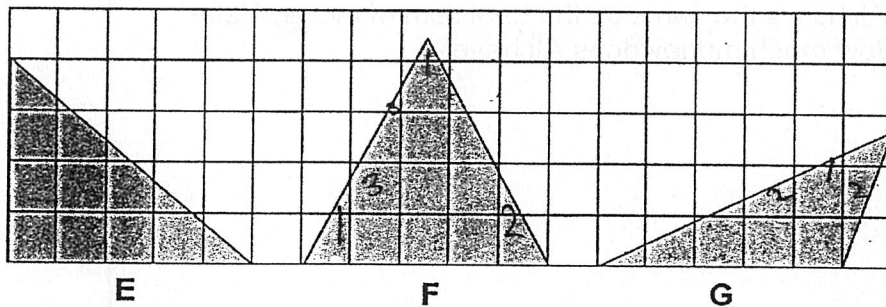
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Ans: _____ kg

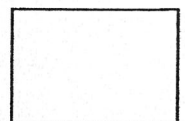


24

In the square grid below, E, F and G are triangles. Arrange E, F and G from the smallest area to the largest.



Ans: _____ , _____ , _____



(Go on to the next page)

25

Gary had some yellow, orange and blue pens. $\frac{3}{10}$ of the pens were yellow. The number of yellow pens was twice the number of orange pens. Find the ratio of the number of blue pens to the total number of pens Gary had.

Give your answer in its simplest form.

Ans: _____

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in this space

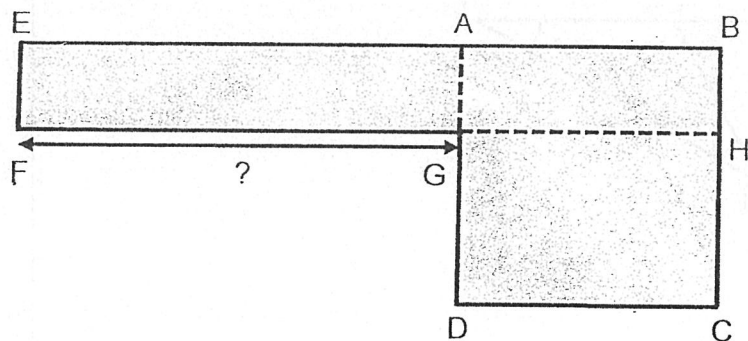
26

Ali has \$27 more than Belle. Carol has \$15 more than Belle. The amount of money Ali has is the same as the total sum of money Belle and Carol have. How much money does Ali have?

Ans: \$ _____

(Go on to the next page)

- 27 In the figure below, Square ABCD and Rectangle EBHF have the same area. Rectangle EBHF has an area of 81 cm^2 . The length of BC is three times the length of BH. Find the length of FG.



Ans: _____ cm

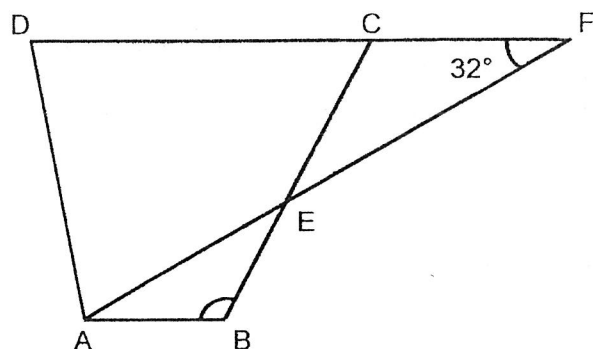
- 28 The radius of a toy wheel is 7 cm. The wheel makes 10 revolutions in 30 seconds. What is the distance travelled by the toy wheel after 3 minutes? (Take $\pi = \frac{22}{7}$)

Ans: _____ cm

(Go on to the next page)

29

In the figure below, not drawn to scale, ABCD is a trapezium. AEF and BEC are straight lines. $\angle CFA = 32^\circ$. $DF \parallel AB$ and $CE = CF$. Find $\angle ABC$.

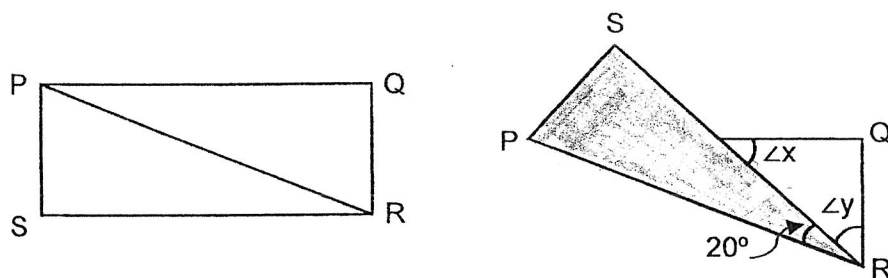


Ans: _____

Do not write
in this space

30

Indra has a rectangular piece of paper. She folds it diagonally along the line PR as shown below.



Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) in the correct column.

Statement	True	False	Not possible to tell
(a) $\angle x$ is equal to $\angle y$.			
(b) The length of SR is the same as PR.			
(c) $\angle x$ is 40° .			

End of Paper

METHODIST GIRLS' SCHOOL (PRIMARY)

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TIMED PRACTICE 2023 PRIMARY 6 MATHEMATICS

PAPER 2

Duration: 1 h 30 min

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

The use of an approved calculator is expected, where appropriate.

Name: _____ ()

Class: Primary 6. _____

Date : 30 May 2023

Parent's Signature: _____

Paper 1 Booklet A	/ 20
Paper 1 Booklet B	/ 25
Paper 2	/ 55
TOTAL	/ 100

This booklet consists of **17** printed pages including this page.

Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

- 1 Arif had 16 kg of flour. He used $\frac{3}{4}$ of it at his food stall and gave $\frac{2}{5}$ kg to his neighbour. How much flour had Arif left?

Ans: _____ kg

- 2 Today is Tuesday.
Which day of the week will it be

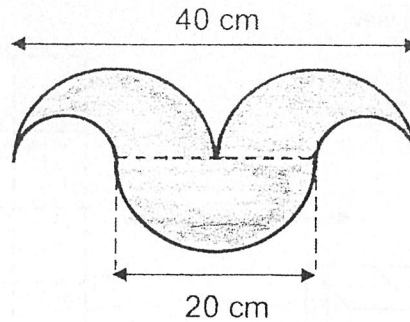
May 2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Ans: _____

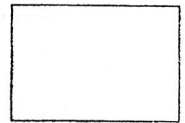
(Go on to the next page)

- 3 The figure below shows 3 identical semicircles with diameter 20 cm and another 2 smaller identical semicircles. Find the area of the figure. (Take $\pi = 3.14$)



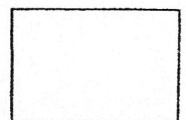
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Ans: _____ cm²



- 4 Haiyun wrote a number down on her whiteboard. She wanted to divide that number by 10 but had mistakenly multiplied the number by 10. The answer she obtained was 8613 more than the answer she should have had. What number did Haiyun write on her whiteboard?

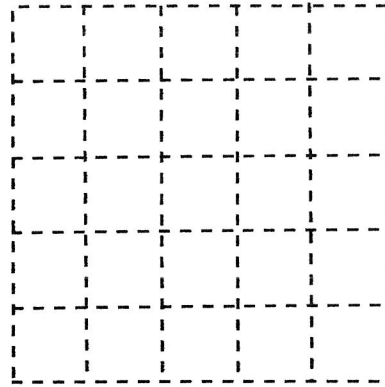
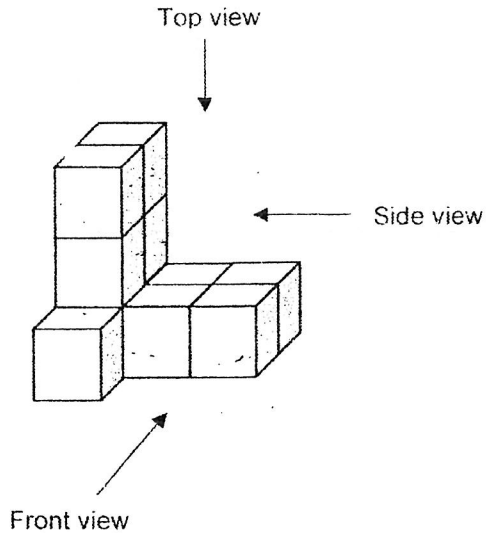
Ans: _____



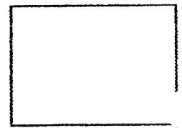
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5

- (a) The solid below is made up of 1-cm cubes glued together.
Draw the top view of the solid (as seen from the front) in the grid.

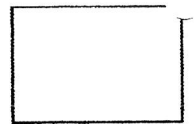


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- (b) What is the least number of cubes that need to be added to the solid above to form a cube?

Ans: (b) _____



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For questions to 6 to 17, show your workings clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question. (45 marks)

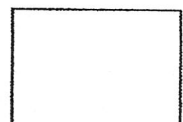
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- 6, The table below shows the fare rate of a taxi company. Nayla flagged down a taxi at 6.50 a.m. and travelled 6 km 420 m. How much did she have to pay?

Basic Fare	Amount
Flag down (inclusive of 1st km or less)	\$3.90
Every 400 m or part thereof	\$0.95

Peak Hour surcharge (at time of boarding)	
6 a.m. to 9.30 a.m.	25% of the total fare

Ans: _____ [3]

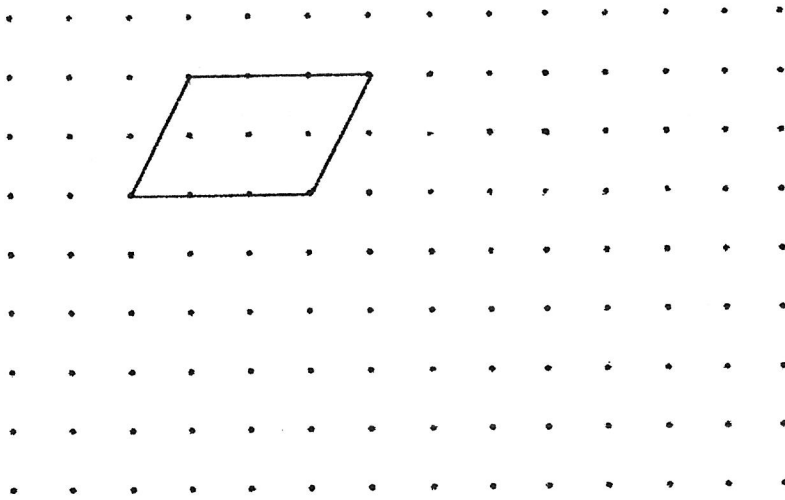


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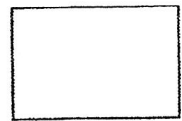
7

In the diagram below, a parallelogram is drawn by joining dots to form 4 lines on the square grid below. In the same manner,

- (a) draw a right-angled triangle with the same perimeter as the parallelogram. This right-angled triangle should not overlap with the parallelogram.



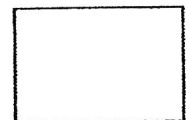
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[1]

- (b) Find the ratio of the area of the triangle to the area of the parallelogram. Give your answer in its simplest form.

Ans: (b) _____ [2]

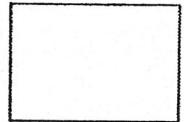


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- 8 Dennis and Eric shared the total cost of a drum set. Dennis paid \$85 less than $\frac{4}{9}$ of the cost of the drum set. Eric paid \$445. How much did Dennis pay for the drum set?

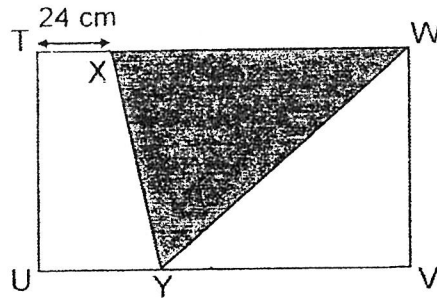
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Ans: _____ [3]



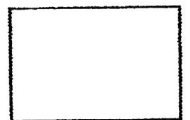
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9. The figure below is made up of Rectangle TUVW and Triangle WXY. The area of Rectangle TUVW is 9360 cm^2 and the area of Triangle WXY is 3744 cm^2 . $TX = 24 \text{ cm}$. What is the length of TU?



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Ans: _____ [3]

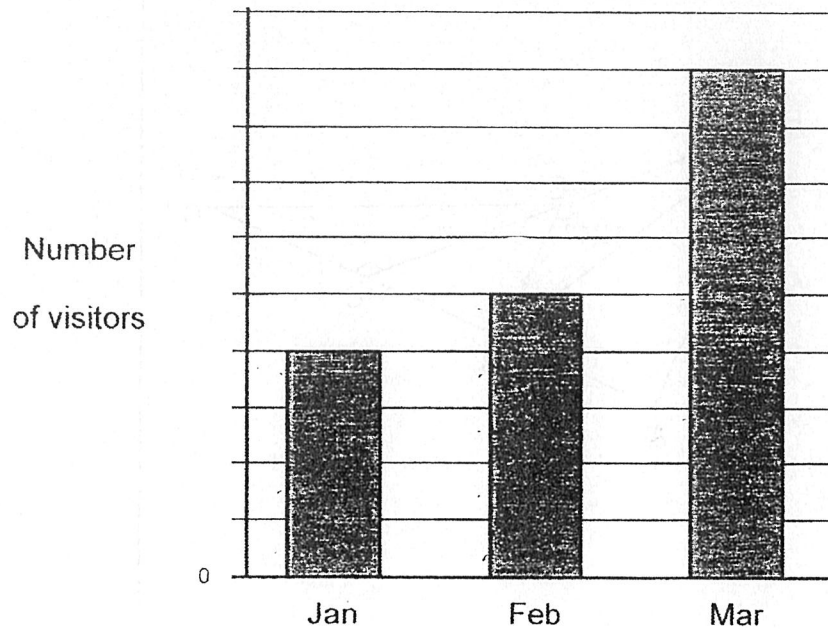


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10

The bar graph shows the number of visitors to a museum from January to March. The number of visitors is not shown on the scale.

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- (a) What was the percentage increase in the number of visitors from January to February?

Ans: (a) _____ [1]

- (b) The average number of visitors from January to March was 300. How many visitors were there in March?

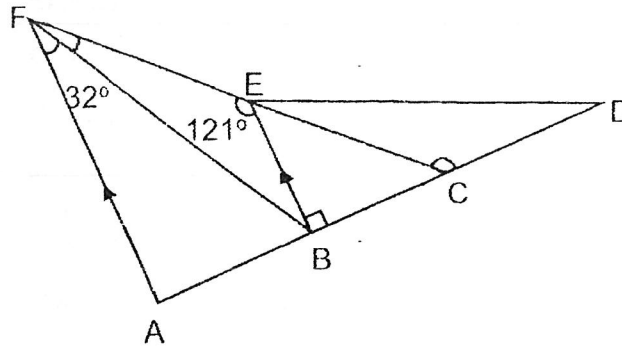
Ans: (b) _____ [2]

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11

In the figure, $ABCD$ and FEC are straight lines. AF is parallel to BE .
 $\angle BEF$ is 121° . $\angle AFB$ is 32° . $\angle CBE$ is a right angle.

(a) Find $\angle BFE$.



Ans: (a) _____ [2]

(b) Find $\angle DCE$.

Ans: (b) _____ [2]

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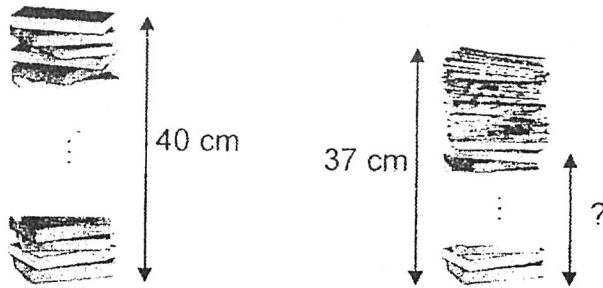
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12

The height of a stack of 20 similar fiction books was 40 cm. Jia Hao took away some of these books from the stack. He placed 26 similar newspapers on top of the remaining fiction books. The height of the stack of fiction books and newspapers was 37 cm. The height of each fiction book was 1.5 cm thicker than each newspaper

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- (a) Find the height of the fiction books left.



Ans: (a) _____ [2]

- (b) Find the number of fiction books that Jia Hao took away from the stack.

Ans: (b) _____ [2]

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- 13 At a sale, Amita paid a total of \$800 for a rice cooker and an oven. The total discount for both items was \$300. A 40% discount was given to the rice cooker. She and paid \$140 more for the oven than the rice cooker.

(a) What was the discount given to the rice cooker?

Ans: (a) _____ [2]

- (b) What was the percentage discount given for the oven?
Round your answer to 1 decimal place.

Ans: (b) _____ [2]

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- 14 Jasmine, Kailing and Lisa made identical large and small stars using wire.

Jasmine made $\frac{2}{7}$ of the total number of stars. Kailing made $\frac{1}{3}$ of the remaining stars and Lisa made the rest.

Length of wire used for each star	
large star	50 cm
small star	30 cm

Jasmine made all the large stars, while Kailing and Lisa made all the small stars. Lisa used 4.5 m of wire more than Kailing.

- (a) How many small stars did Kailing and Lisa make?

Ans: (a) _____ [2]

- (b) Find the total length of wire the girls used to make all the large and small stars.

Ans: (b) _____ [2]

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- 15 Bala used shaded and unshaded squares to form figures that follow a pattern. The first four figures are shown below.

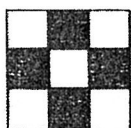


Figure 1

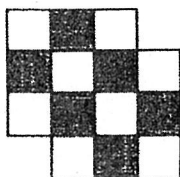


Figure 2

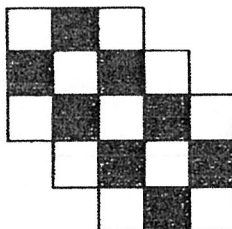


Figure 3

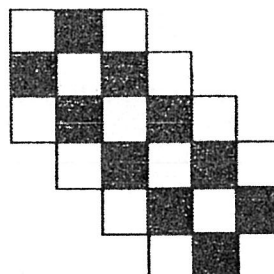


Figure 4

- (a) The table below shows the number of shaded and unshaded squares for each figure. Complete the table for Figure 5 and Figure 6.

Figure Number	Number of shaded squares	Number of unshaded squares
1	4	5
2	6	8
3	8	11
4	10	14
5	12	(i) _____
6	14	(ii) _____

[1]

- (b) What is the difference in the number of unshaded squares Bala used for Figure 11 and Figure 14?

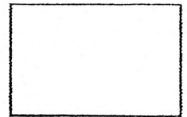
Ans: (b) _____ [2]

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- (c) A figure in the pattern has 20 more unshaded than shaded squares. What is the total number of shaded and unshaded squares in that figure?

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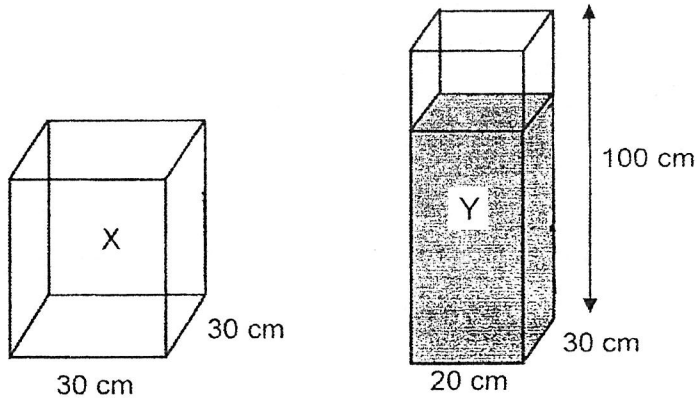
Ans: (c) _____ [2]



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16

Grandma has 2 rectangular tanks, Tank X and Tank Y. Tank X is an empty container with a square base of sides 30 cm. Tank Y measures 20 cm by 30 cm by 100 cm. Tank Y was $\frac{4}{5}$ filled with water at first.



Grandma then poured some water from Tank Y into Tank X until the height of the water in Tank X became 2 times the height of the water in Tank Y.

- (a) How much water was in Tank Y at first?

Ans: _____ [1]

- (b) What was the height of the water in Tank X in the end?

Ans: _____ [3]

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17

Mrs Ong is preparing chicken wings for a big party. The ratio of the number of adults to the number of children attending is 3 : 4. Among the children, the ratio of the number of girls to the number of boys is 2 : 3. A total of 270 chicken wings are prepared so that each adult will get 5 chicken wings and each child will get 3.

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- (a) What is the ratio of the number of adults to the number of girls to the number of boys at the party?
Give your answer in the simplest form.

Ans: (a) _____ [1]

- (b) How many children are expected to attend the party?

Ans: (b) _____ [2]

- (c) How many chicken wings will be distributed to the girls at the party?

Ans: (c) _____ [2]

END OF PAPER

YEAR : 2023
 LEVEL : PRIMARY 6
 SCHOOL : METHODIST GIRLS' SCHOOL (PRIMARY)
 SUBJECT : MATHEMATICS
 TERM : PAPER 1

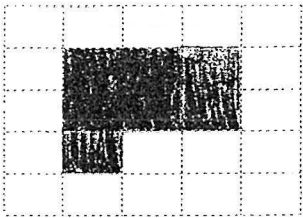
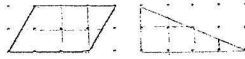
BOOKLET A

Q1	4	Q2	2	Q3	2	Q4	/	Q5	3
Q6	3	Q7	2	Q8	2	Q9	1	Q10	1
Q11	3	Q12	2	Q13	4	Q14	3	Q15	3

BOOKLET B

Q16	$9020 \div 5 = 1804$	Q17	24.0
Q18	$0.38 \times 10 = 3.8$ $3.8 \times 5 = 19$	Q19	$2.06\text{kg} = 2060\text{g}$ $2060 - 730 = 1330\text{g}$ $= 1.33\text{kg}$
Q20	$180 - 45 - 112 = 23^\circ$	Q21	(a) $\frac{1}{4} + \frac{3}{5} = \frac{5}{20} + \frac{12}{20} = \frac{17}{20}$ (b) $\frac{1}{3}$ and $\frac{4}{6} = \frac{2}{3}$ and $\frac{4}{6}$ $= \frac{1}{2}$
Q22	$1 - \frac{8}{12} = \frac{4}{12}$ $\frac{4}{12} \div 2 = \frac{2}{12}$ $= \frac{1}{6}$	Q23	P : C 3 : 1 9 : 3 $15 \div 12 = 1.25\text{kg}$
Q24	G, E, F	Q25	$\frac{3}{10} = \frac{6}{20}$ $\frac{6}{20} \div 2 = \frac{3}{20}$ $6 + 3 = 9$ $20 - 9 = 11$ B : T 11 : 20
Q26	$1u : 27 - 15 = 12$ Ali : $12 + 27 = \$39$	Q27	$81 \div 3 = 27$ $27 - 9 = 18\text{cm}$
Q28	$7 \times 2 \times \frac{22}{7} = 44\text{cm}$ $30\text{sec} = 44 \times 10 = 440\text{cm}$ $3 \text{ min} = 6 \times 30\text{sec} = 440 \times 6 = 2640\text{cm}$	Q29	$180 - 64 = 116^\circ$
Q30	(a) False (b) False (c) True		

PAPER 2

Q1	$16 \times \frac{1}{4} = 4\text{kg}$ $4\text{kg} - \frac{2}{5}\text{kg} = 3\frac{3}{5}\text{kg}$	Q2	$88 \div 7 = 12\text{r}4$ Tuesday \rightarrow Saturday
Q3	Small circle : $\frac{5 \times 5 \times 3.14}{2} = 78.5$ $1 \text{ semi circle} = \frac{10 \times 10 \times 3.14}{2} = 157$ $3 \text{ semi circle} = 157 \times 3 = 471$ Area of fig = $471 - 78.5 = 392.5\text{cm}^2$	Q4	$10 \times 10 = 100$ $100 - 1 = 99$ $8613 \div 9 = 87$ $87 \times 10 = 870$
Q5	(a)  (b) $2 + 2 + 2 + 2 + 2 + 2 + 2 + 2$ $= 16$	Q6	$6\text{km } 420\text{m} - 1\text{km} = 5\text{km } 420\text{m}$ $5\text{km } 420\text{m} \div 400\text{m} = 13\text{r}220\text{m}$ $(13 + 1) \times 0.95 = 13.30$ $3.90 + 13.30 = 17.20$ $17.20 \div 4 = 4.30$ Total fare = $4.30 + 17.20$ $= \$21.50$
Q7	 $2 \times 4 \times \frac{1}{4} = 4$ T : PS 4 : 6 2 : 3 (b)	Q8	$445 - 85 = 360$ $360 \rightarrow \frac{5}{9}$ $\frac{1}{9} \rightarrow 360 \div 5 = 72$ $\frac{4}{9} \rightarrow 72 \times 4 = 288$ Dennis $\rightarrow 288 - 85 = \$203$
Q9	Unshaded area = $9360 - 3744 = 5616\text{cm}^2$ $5616 - 3744 = 1872\text{cm}^2$ $1872 \div 24 = 78\text{cm}$	Q10	(a) $100 \div 4 = 25\%$ (b) $300 \times 3 = 900$ $900 \div 18 = 50$ $80 \times 9 = 450 \text{ visitors}$
Q11	(a) $180 - 121 - 32 = 27$ (b) $180 - 121 = 59$ $180 - 59 - 90 = 31$ $180 - 31 = 149^\circ$	Q12	(a) $1 \text{ fiction book} \rightarrow 40 \div 20 = 2\text{cm}$ $2 - 1.5 = 0.5\text{cm}$ $26 \times 0.5 = 13$ $37 - 13 = 24\text{cm}$ (b) $24 \div 2 = 12$ $20 + 2 = 8 \text{ fiction books}$
Q13	(a) $800 - 140 = 660$ $660 \div 2 = 330$ Original price of RC = $330 \div 6 \times 4 = \$220$ (b) $330 + 140 = 470$ $300 - 220 = 80$ $80 - 470 = 550$	Q14	(a) $\frac{1}{3}\text{R} = 15 \text{ stars}$ $\text{R} = 15 \times 3 = 45 \text{ stars}$ (b) $45 = \frac{5}{7}$ $\frac{1}{7} = 45 \div 5 = 9$ $\frac{2}{7} = 9 \times 2 = 18$ $45 \times 30 = 1350$ $18 \times 50 = 900$ $1350 + 900 = 2250\text{cm}$

Q15	<p>(a)</p> <p>(i) 17</p> <p>(ii) 20</p> <p>(b) Figure unshaded squares = $20 + 5 \times 3 = 35$</p> <p>Figure 14 unshaded squares = $35 + 3 \times 3 = 44$</p> <p>$44 - 35 = 9$</p> <p>(c) Shaded squares $\rightarrow 4 + 2 + 19 = 42$</p> <p>Unshaded $\rightarrow 5 + 3 \times 19 = 62$</p> <p>$42 + 62 = 104$ squares</p>	Q16	<p>(a) $80 \times 30 \times 20 = 48\,000\text{cm}^3$</p> <p>(b) $30 \times 30 \times 2h + 20 \times 30 = 48\,000$</p> $\frac{900 \times 2h}{1800h} + 600 \times h = 48\,000$ <p>$1800H + 600H = 48\,000$</p> <p>$48\,000 \div 2400 = 20$</p> <p>$20 \times 2 = 40$</p>
Q17	<p>(a) A : G : B</p> <p>15 : 8 : 12</p> <p>(b) $15 \times 5 = 75$</p> <p>$20 \times 3 = 60$</p> <p>$15 \times 10 = 150$</p> <p>$20 \times 6 = 120$</p> <p>$1u = 2$ people</p> <p>$20u : 2 \times 20 = 40$ children</p> <p>(c) $40 \times 3 = 120$</p> <p>$20u = 120$</p> <p>$1u = 120 \div 20 = 6$</p> <p>Girls = $8u$</p> <p>$= 6 \times 8 = 48$ Chicken wings</p>		

END

Pg 3.

Name: _____ ()

Class: Primary 6 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)**Primary 6 Mathematics****2023 Weighted Assessment****Term 2 Week 9**

Total Marks	30
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Parent's/Guardian's Signature**Time : 50 minutes****INSTRUCTIONS TO CANDIDATES**

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

The use of an approved calculator is expected, where appropriate.

This booklet consists of 10 printed pages.

Questions 1 and 2 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (4 marks)

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1. A fruit seller sold some apples, mangoes and oranges in the ratio 7 : 3 : 6. He sold 336 apples, mangoes and oranges altogether. How many oranges did the fruit seller sell?

Ans : _____

2. A cubical tank of edge 56 cm was $\frac{1}{7}$ filled with water at first. Water flowed from a tap into the tank at a rate of 4.5 l per minute. Find the volume of water in the tank after 15 minutes.

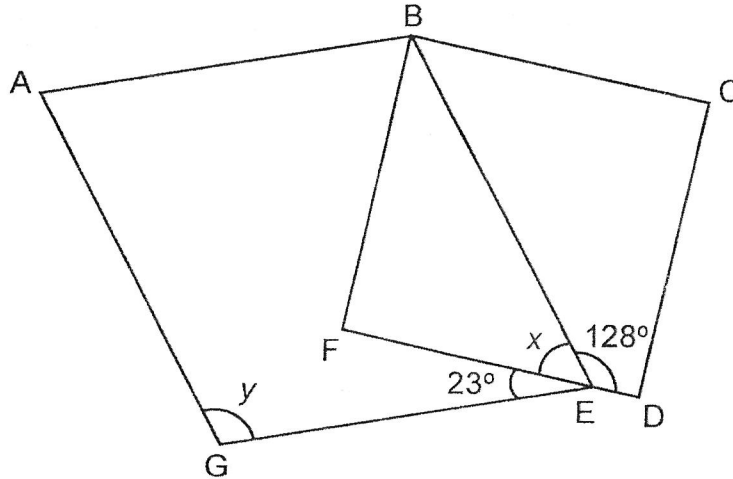
Ans : _____ ml



For questions 3 to 9, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in the brackets () at the end of each question or part-question. (26 marks)

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3. The figure is made up of a rhombus ABEG and a square BCDF.



- (a) Name an obtuse angle.

Ans : _____ [1]

- (b) Find $\angle x$.

Ans : _____ [1]

- (c) Find $\angle y$.

Ans : _____ [1]



4. Jia Hui's salary was $\frac{4}{7}$ of Aishah's salary. Jia Hui spent \$729. Aishah did not spend any money. In the end, the amount of money Jia Hui had left to the amount of money Aishah had was 2 : 5. How much was Jia Hui's salary?

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Ans : _____ [3]



5. Shanti wanted to buy a sofa set. The sofa set in Shop A was sold at a 5% discount and the similar sofa set in Shop B was sold at a 20% discount. Both shops sold the sofa set at the same price before discount.

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To buy the sofa set in Shop A, Shanti would need \$150 more than what she had. Shanti bought the sofa set in Shop B and had \$300 left.

- (a) What was the price of the sofa set before discount?

Ans : (a) _____ [2]

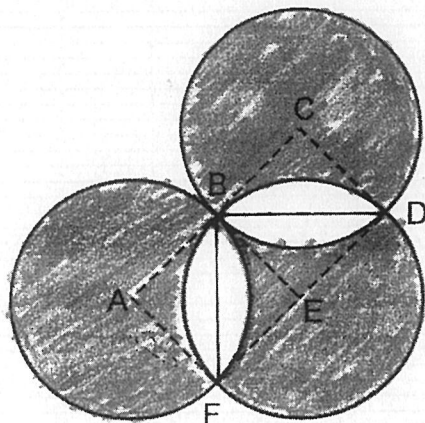
- (b) How much money did Shanti have at first?

Ans : (b) _____ [1]



6. The figure is formed by three identical circles with centres A, C and E. ABEF and BCDE are identical squares of side 10 cm. AC and FD are straight lines. (Take $\pi = 3.14$)

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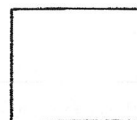


- (a) Find the total area of the shaded parts.

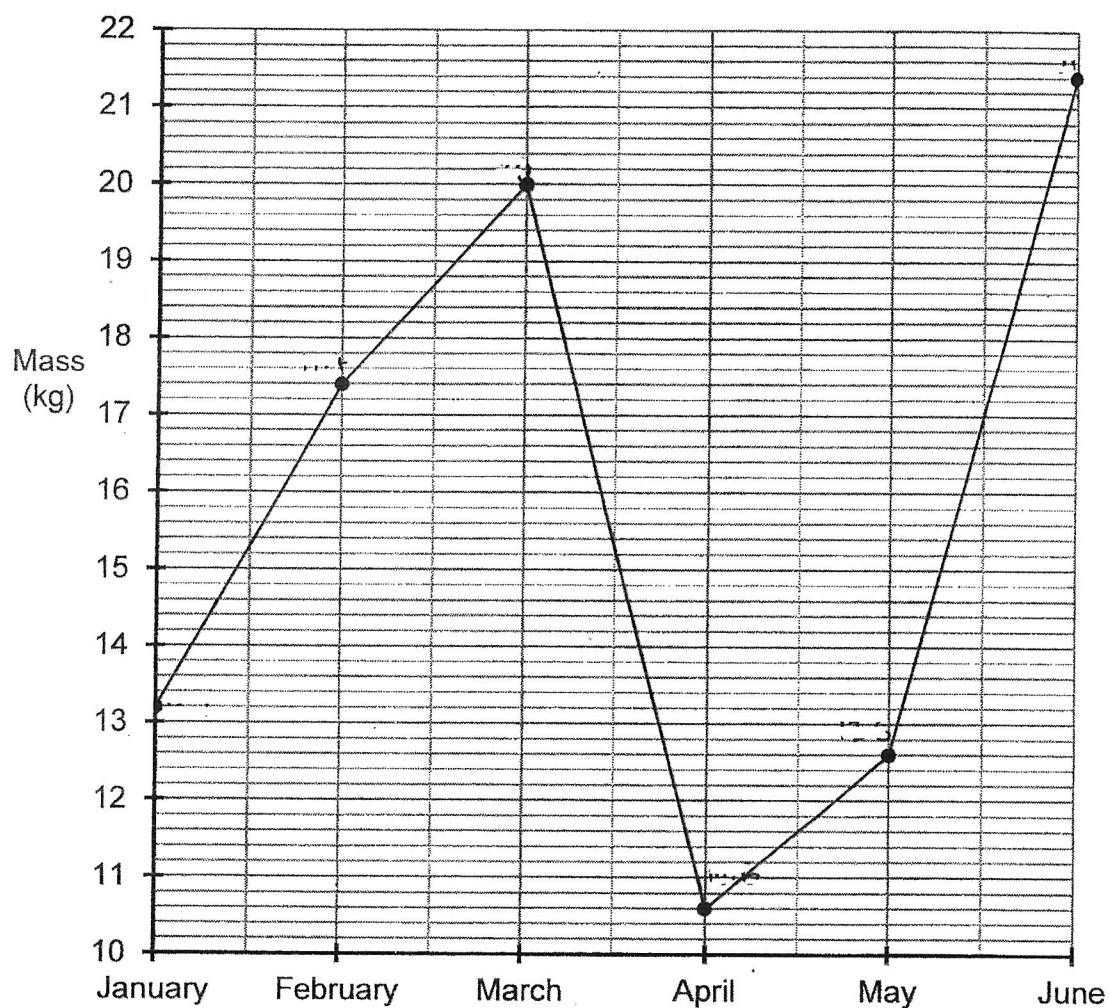
Ans : (a) _____ [2]

- (b) Find the perimeter of the shaded parts.

Ans : (b) _____ [2]



7. The line graph shows the mass of newspapers a class collected at the end of each month for 6 months.



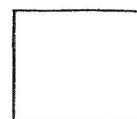
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- (a) In which month was the increase in the mass of newspapers collected the greatest?

Ans : (a) _____ [1]

- (b) Find the percentage decrease in the mass of newspapers collected from March to April.

Ans : (b) _____ [1]



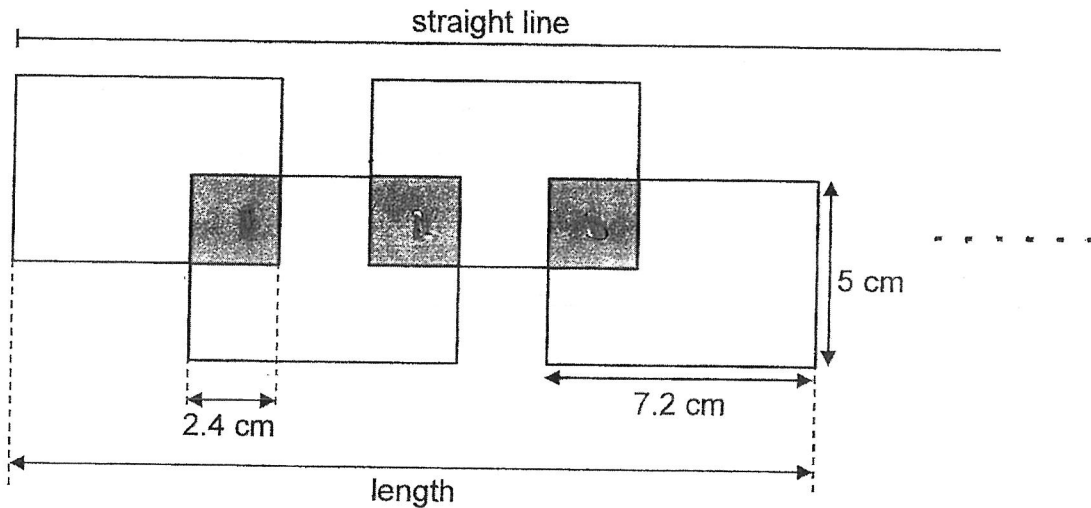
- (c) The collection of newspapers continued until December. In February, the class collected $\frac{2}{9}$ of the total mass of newspapers collected. What was the total mass of the newspapers collected from January to December?

Ans : (c) _____ [1]



8. Basheer drew some identical rectangles along a straight line on a piece of paper to form the figure as shown. Each rectangle has a length of 7.2 cm and a breadth of 5 cm. The shaded squares are the overlapping parts. Each shaded square has a side of 2.4 cm.

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- (a) What was the length of the figure formed by Basheer using 4 such rectangles?

Ans : (a) _____ [1]

- (b) Find the area of the figure which was formed by using 4 such rectangles.

Ans : (b) _____ [2]

- (c) Basheer continued to draw more rectangles along the straight line. The distance between the first rectangle and the last rectangle was 290.4 cm. How many rectangles did he draw altogether?

Ans : (c) _____ [2]

9. Mr Ho had a box of red, blue and green pens. $\frac{1}{5}$ of the pens were red, $\frac{1}{4}$ of the pens were blue and the rest were green pens. The cost of each pen is shown in the table. He sold all the pens and collected \$1141.

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Colour of pen	Cost
Red	\$1.20
Blue	\$1.60
Green	\$1.80

- (a) What fraction of the pens were green?

Ans : (a) _____ [1]

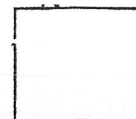
- (b) How many pens did Mr Ho sell altogether?

Ans : (b) _____ [2]

- (c) Daphne bought 2 red pens and 4 green pens with $\frac{2}{7}$ of her pocket money. She bought blue pens with all her remaining pocket money. How many blue pens did Daphne buy?

Ans : (c) _____ [2]

THE END



YEAR : 2023
 LEVEL : PRIMARY 6
 SCHOOL : CHIJ ST NICHOLAS GIRLS' SCHOOL (PRIMARY)
 SUBJECT : MATHEMATICS
 TERM : 2023 WEIGHTED ASSESSMENT (TERM 2 WEEK 9)

WEIGHTED ASSESSMENT 1

Q1	$7 + 3 + 6 = 16$ $336 \div 16 = 21$ $21 \times 6 = \underline{126}$	Q2	$56 \times \frac{1}{7} = 8$ $8 \times 56 \times 56 = 25088$ $4.5\text{L} = 4500\text{ml}$ $4500 \times 15 = 67500$ $67500 + 25088 = \underline{92588\text{ml}}$						
Q3	(a) $\angle Y$ (b) $180 - 128 = 52^\circ$ (c) $52 + 23 = 75$ $180 - 75 = \underline{105^\circ}$	Q4	<table><tr><td>JH : A</td><td>JH : A</td></tr><tr><td>4 : 7</td><td>2 : 5</td></tr><tr><td>20 : 35</td><td>14 : 35</td></tr></table> $20 - 14 = 6$ $729 \div 6 = 121.5$ $121.5 \times 20 = \underline{\$2430}$	JH : A	JH : A	4 : 7	2 : 5	20 : 35	14 : 35
JH : A	JH : A								
4 : 7	2 : 5								
20 : 35	14 : 35								
Q5	(a) $300 + 150 = 450$ $20 - 5 = 15$ $450 \div 15 = 30$ $30 \times 100 = \$3000$ (b) $100 - 20 = 80$ $3000 \times \frac{80}{100} = 2400$ $2400 + 300 = \underline{\$2700}$	Q6	(a) $\frac{1}{2} \times 10 \times 10 = 50$ $\frac{1}{4} \times 3.14 \times 10 \times 10 = 78.5$ $78.5 - 50 = 28.5$ $3.14 \times 10 \times 10 = 314$ $314 \times 3 = 942$ $28.5 \times 8 = 228$ $942 - 228 = 714\text{cm}^2$ (a) (b) $10 + 10 = 20$ $3.14 \times 20 = 62.8$ $62.8 \times 3 = \underline{188.4\text{cm}}$ (b)						
Q7	(a) $17.4 - 13.2 = 4.2$ (February) $20 - 17.4 = 2.6$ (March) $12.6 - 10.6 = 2$ (May) $21.4 - 12.6 = \underline{8.8}$ (June) (b) $20 - 10.6 = 9.4$ $\frac{9.4}{20} \times 100 = 47\%$ (c) $17.4 \div 2 = 8.7$ $8.7 \times 9 = \underline{78.3\text{kg}}$	Q8	(a) $7.2 - 2.4 = 4.8$ $4.8 + 4.8 + 4.8 + 7.2 = \underline{21.6\text{cm}}$ (b) $2.4 \times 2.4 = 5.76$ $5.76 \times 3 = 17.28$ $7.2 \times 5 = 36$ $36 \times 4 = 144$ $144 - 17.28 = \underline{126.72\text{cm}^2}$ (c) $290.4 - 7.2 = 283.2$ $7.2 - 2.4 = 4.8$ $283.2 \div 4.8 = 59$ $59 + 1 = \underline{60}$						

Q9

$$(a) 1 - \frac{1}{5} - \frac{1}{4} = \frac{11}{20}$$

$$(b) \frac{1}{5} = \frac{4}{20}$$

$$\frac{1}{4} = \frac{5}{20}$$

=

R : B : G : Total			
4	5	11	20

$$4 \times 1.2 = 4.8$$

$$5 \times 1.6 = 8$$

$$11 \times 1.8 = 19.8$$

$$4.8 + 8 + 19.8 = 32.6$$

$$1141 \div 32.6 = 35$$

$$35 \times 20 = 700$$

$$(c) 2 \times 1.2 = 2.4$$

$$4 \times 1.8 = 7.2 = 9.6$$

$$9.6 \div 2 = 4.8$$

$$7 - 2 = 5$$

$$4.8 \times 5 = 24$$

$$24 \div 1.6 = 15$$

END

Pg 2



NAN HUA PRIMARY SCHOOL
NON-WEIGHTED ASSESSMENT 2 2023
PRIMARY 6

MATHEMATICS
PAPER 1
(BOOKLET A)

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided for Questions 1-15.
6. The use of calculators is **NOT** allowed.

Name : _____ ()

Class : 6 _____

Date : _____

Parent's Signature : _____

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each.
For each question, four options are given. One of them is the correct answer.
Make your choice and shade your answer (1, 2, 3 or 4) on the Optical
Answer Sheet. (20 marks)

1. Round 245 542 to the nearest thousand.

- (1) 245 000
- (2) 245 500
- (3) 246 000
- (4) 250 000

2. What is the value of $16 + (40 - 8) \div 4 \times 2$?

- (1) 6
- (2) 24
- (3) 32
- (4) 48

3. Which one of the following are common factors of 12 and 30?

- (1) 2 and 3
- (2) 2 and 5
- (3) 3 and 4
- (4) 4 and 6

4. Find $\frac{2}{7} \div \frac{5}{8}$

(1) $\frac{12}{35}$

(2) $\frac{5}{21}$

(3) $2\frac{11}{12}$

(4) $4\frac{1}{5}$

5. $\frac{3}{5} \times 12 = 3 \times \frac{3}{5} + \frac{3}{5} + \square \times \frac{3}{5}$

(1) 5

(2) 8

(3) 9

(4) - 4

6. Simplify the following algebraic expression.

$$14 + 6a + 2 - 5a$$

(1) $16 + 11a$

(2) $16 + a$

(3) $12 + 11a$

(4) $12 + a$

7. Simon started his revision at 11.55 a.m. He revised for 1 h 50 min.
What time did Simon stop his revision?

- (1) 1.05 a.m.
- (2) 1.45 a.m.
- (3) 1.05 p.m.
- (4) 1.45 p.m.

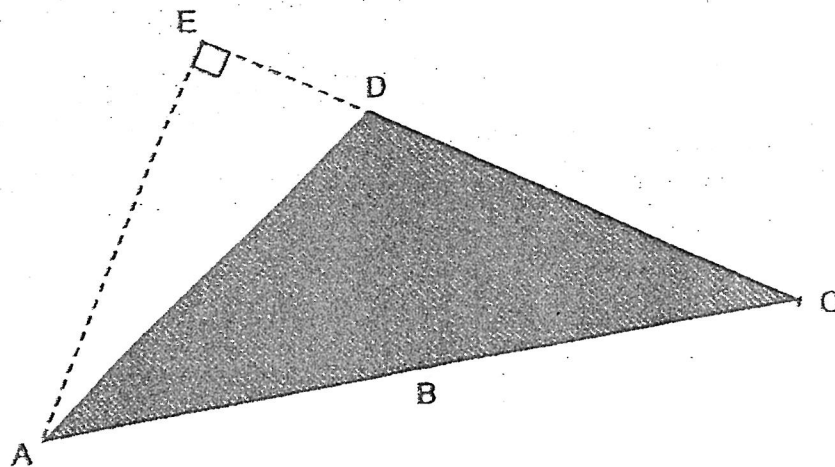
8. The table below shows the number of coins saved by Natalie for 5 days.

Day	Number of coins saved	
	20-cent coins	50-cent coins
Monday	4	2
Tuesday	10	0
Wednesday	0	3
Thursday	5	5
Friday	8	1

On how many days was Natalie able to save at least \$2?

- (1) 5
- (2) 2
- (3) 3
- (4) 4

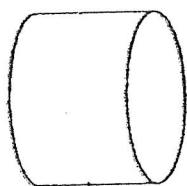
9.



From the figure above, which one of the following shows the correct base and height of triangle ACD?

	Base	Height
(1)	BD	AC
(2)	CD	AE
(3)	CE	AE
(4)	CD	BD

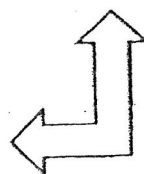
10. Which one of the following is a symmetric figure?



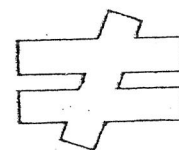
(1)



(2)



(3)



(4)

11. What is the value of $21 + \frac{4y}{2}$ when $y = 6$?

(1) 22

(2) 24

(3) 28

(4) 33

12. At a carnival, the ratio of the number of adults to the number of children is 7 : 9. The number of boys is $\frac{1}{5}$ the number of girls. What is the ratio of the number of girls to the number of adults?

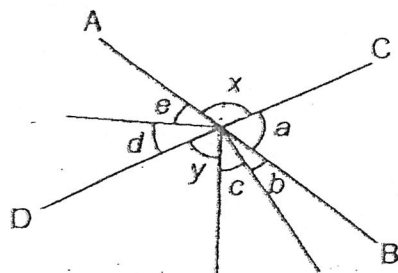
(1) 1 : 7

(2) 5 : 7

(3) 3 : 14

(4) 15 : 14

13. In the figure below not drawn to scale, AB and CD are straight lines. Find the difference between $\angle x$ and $\angle y$.



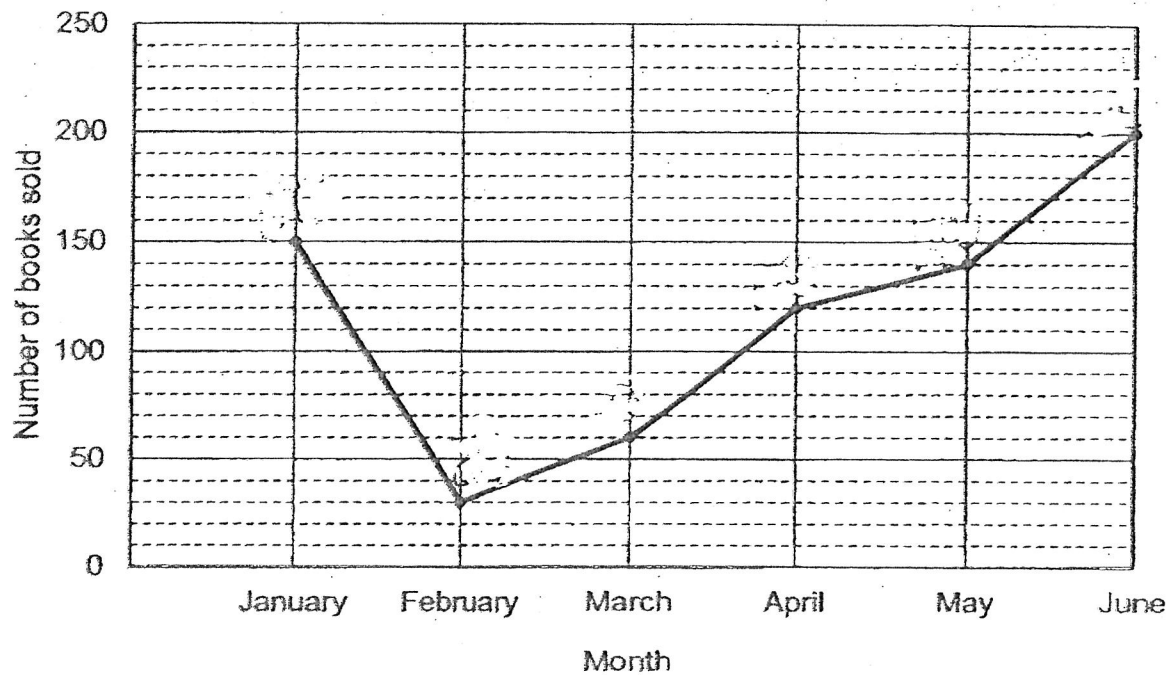
(1) $\angle a - \angle d$

(2) $\angle b + \angle c$

(3) $\angle d + \angle e$

(4) $\angle a - \angle e$

14. The line graph below shows the number of books sold by a shop from January to June in 2015.



What was the average number of books sold per month from February to April in 2015?

- (1) 35
- (2) 70
- (3) 75
- (4) 210

15. The table below shows the number of students in 6A. Some of the information is missing.

	With CCA	Without CCA	Total
Boys	10		
Girls	15		20
Total			36

Based on the given information, which of the following statements is correct?

- (1) $\frac{1}{5}$ of the students with a CCA are boys.
- (2) 25% of the girls are without any CCA.
- (3) There are more girls than boys who are without any CCA.
- (4) The ratio of the number of girls to the number of boys in 6A is 4 : 5.



NAN HUA PRIMARY SCHOOL
NON-WEIGHTED ASSESSMENT 2 2023
PRIMARY 6

MATHEMATICS
PAPER 1
(BOOKLET B)

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.
6. The use of calculators is **NOT** allowed.

Marks Obtained

Paper 1	Booklet A		/ 45
	Booklet B		
Paper 2			/ 55
Total			/ 100

Name : _____ ()

Class : 6 _____

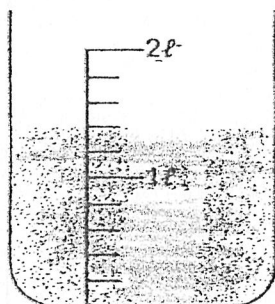
Date : _____ Parent's Signature : _____

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. [5 marks]

16. Find the value of $18 \div \frac{4}{5}$

Ans : _____

17. How much water is there in the beaker?



Ans : _____ ml

18. Write down the common multiple of 3 and 7 that is greater than 40 but smaller than 50.

Ans: _____

Subtotal	/ 3
----------	-----

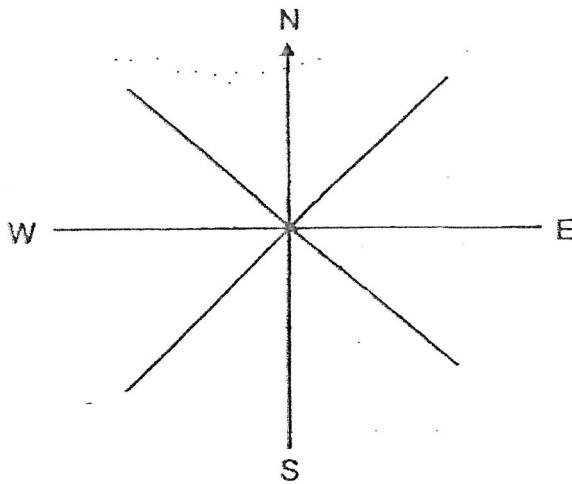
Do not write
in this space

19. 3 children shared $\frac{2}{3}$ of a pizza equally. What fraction of a pizza did each child get?

Do not write
in this space

Ans : _____

20. Jimmy is facing west now. When he makes a $\frac{3}{4}$ – turn in a clockwise direction and another $\frac{1}{4}$ – turn in an anticlockwise direction, where will Jimmy be facing?



Ans : _____

Subtotal	/ 2
----------	-----

Questions 21 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For each questions which require units, give your answers in the units stated. [20 marks]

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21. A is a fraction that lies exactly between $\frac{1}{4}$ and $\frac{1}{2}$. What is A?

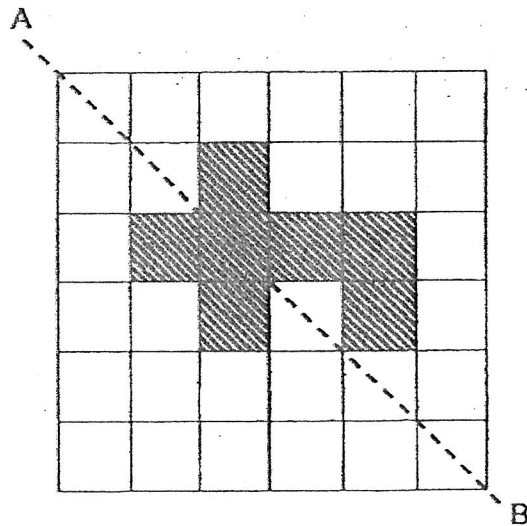


Ans : _____

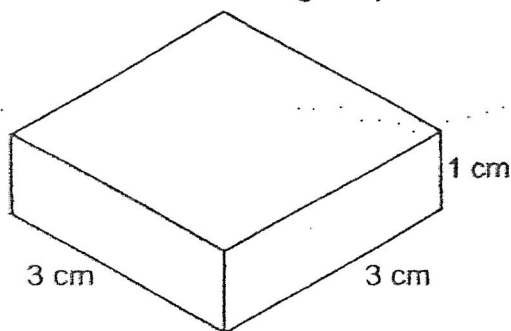
22. Draw a triangle ABC such that $AB = BC = 5 \text{ cm}$ and $\angle ABC = 80^\circ$

Subtotal	/ 4
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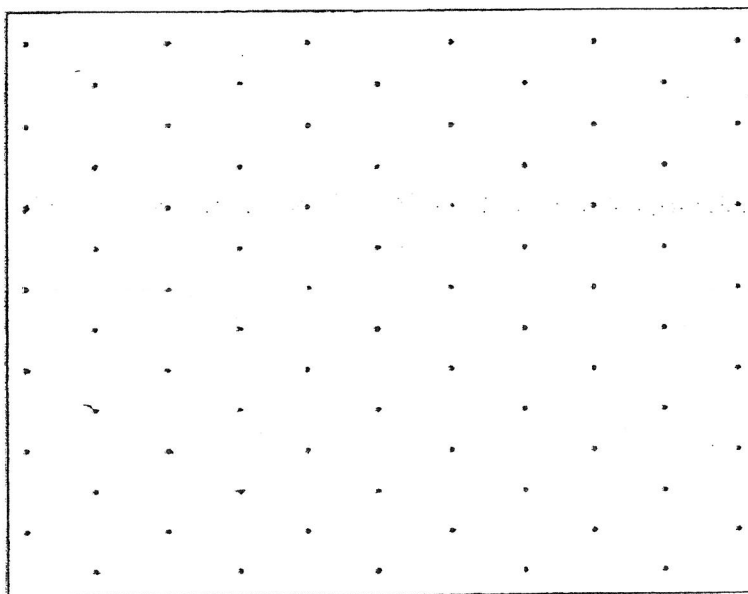
23. There are 7 shaded squares in the figure. Shade 2 more squares to form a symmetric figure with AB as the line of symmetry.



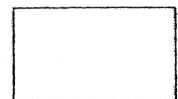
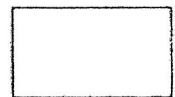
24. The figure below shows Cuboid A. Draw a cuboid with a volume twice that of Cuboid A on the isometric grids provided.



Cuboid A



Do not write
in this space



Subtotal

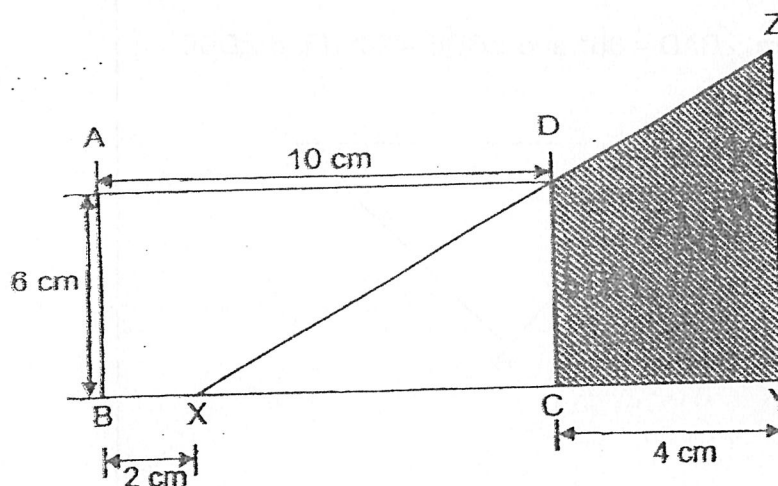
/ 4

25. Mdm Lim made $\frac{7}{8}$ ℓ of orange drink. She poured the orange drink into glasses of capacity $\frac{1}{5}$ ℓ each. All the glasses were completely filled except for 1 glass. How much orange drink was in the glass that was not completely filled?

Do not write
in this space

Ans : _____ ℓ

26. In the figure below not drawn to scale, Rectangle ABCD has the same area as Triangle XYZ. Find the area of the shaded part.



Ans : _____ cm²

Subtotal	/ 4
----------	-----

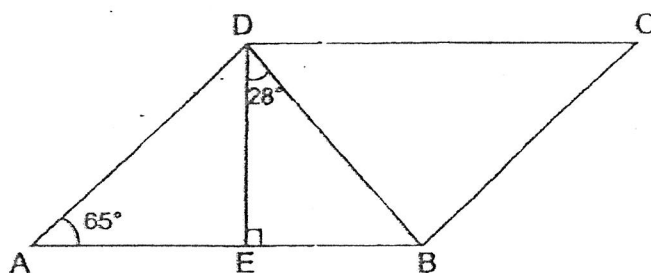
27. Madam Fatimah baked some cupcakes. After selling $\frac{1}{4}$ of the cupcakes, she packed the remaining cupcakes into 12 boxes. There were $4w$ cupcakes in each box. How many cupcakes did Madam Fatimah bake in all?

Do not write
in this space

Ans : _____

28. The figure below is not drawn to scale.

ABCD is a parallelogram. $\angle BAD = 65^\circ$ and $\angle BDE = 28^\circ$. Find $\angle DBC$.



Ans: _____°

Subtotal	/ 4
----------	-----

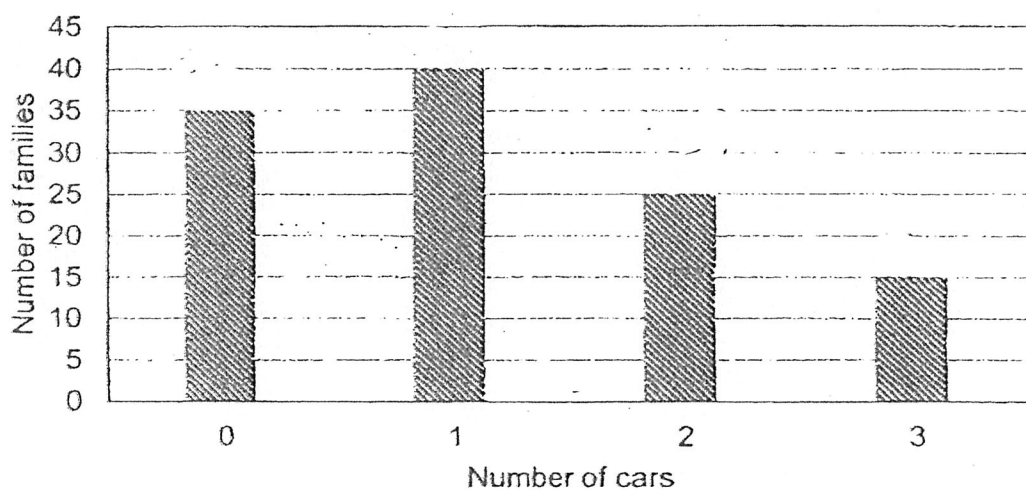
29. Bowen has some 10-cent and 50-cent coins in his savings box.

There are 3 fewer 50-cent coins than 10-cent coins in the box. The total value of the coins is \$5.70. How many 10-cent coins does Bowen have?

Do not write
in this space

Ans: _____ ten-cent coins

30. The bar graph shows the number of cars owned by families living in an estate.



Each of the statements below is either true, false or impossible to tell from the information given. For each statement, put a tick (✓) to indicate your answer.

Statement	True	False	Not possible to tell
40 families own at least 2 cars.			
50% of the total number of cars are owned by families with only 1 car.			

END OF PAPER 1



NAN HUA PRIMARY SCHOOL
NON-WEIGHTED ASSESSMENT 2 2023
PRIMARY 6

MATHEMATICS
Paper 2

Total Time for Paper 2: 1 hour 30 minutes

INSTRUCTION TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
6. Do not use correction fluid/tape or highlighters.
7. The use of an approved calculator is allowed.

Marks Obtained

Total	Max Mark
	55

Name : _____

Form Class : 6 ____ () **Teaching Group :** 6M ____ ()

Date : 12 May 2023 **Parent's Signature :** _____

This booklet consists of 16 printed pages

Questions 1 to 5 carry 2 marks each. Show your workings clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

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in this space

- 1 The table shows the results of 4 runners in a 4 x 100m relay.

Find the average time taken by the runners.

Name	Timing
Andy	10 s
Benjamin	15 s
Charlie	13 s
Daniel	12 s

Ans: _____ s

- 2 The ratio of the number of apples to the number of pears at a fruit stall was 9 : 4. The fruit seller sold $\frac{2}{3}$ of the apples and $\frac{3}{4}$ of the pears. What was the ratio of the number of apples left to the number of pears left?

Ans: _____

- 3 The table below shows the parking charges at ABC car park.

Do not write
in this space.

Parking charges at ABC Car Park	Amount
First hour	\$1.80
Every additional half an hour	\$0.60

Mr Tan parked his car for 9 hours at ABC car park. How much did he pay?



Ans: \$ _____

- 4 Miss Tan started a fixed deposit account with \$30 000 in a bank. The interest rate is 4% per year. How much would she have in her account at the end of one year?

Ans: \$ _____

(Go on to the next page)

- 5 Cheryl spilled some ink on her Mathematics quizzes results slip as shown below.

Topic	Score
Fractions	88
Percentage	6 
Ratio	 2
Circles	75
Total score	318

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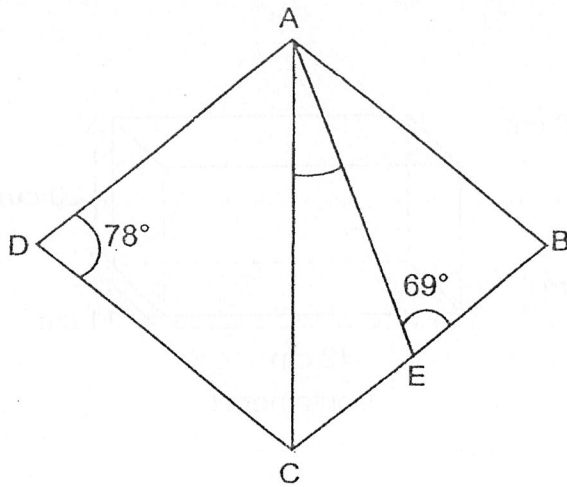
What is the difference between Cheryl's score for her Percentage quiz and her Ratio quiz?

Ans: _____

For questions 6 to 17, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question. (45 marks)

Do not write
in this space

- 6 In the figure below, ABCD is a rhombus. Find $\angle CAE$.



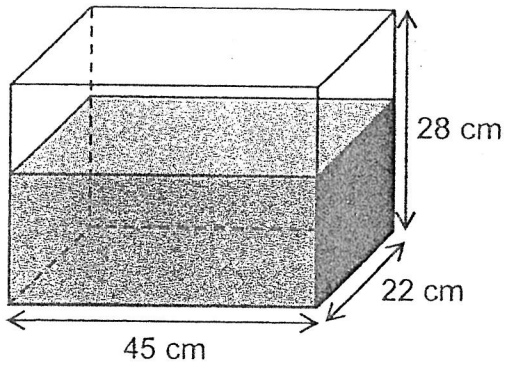
Ans: _____ [3]



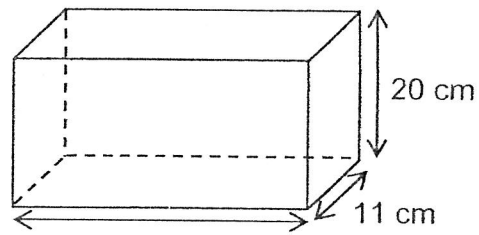
- 7 Container A measuring 45 cm by 22 cm by 28 cm was $\frac{4}{7}$ filled with water.

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in this space

The water was then poured into another empty container, Container B, until it was filled to the brim. What was the volume of water left in Container A? Give your answer in litres.

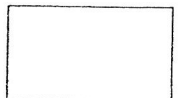


Container A



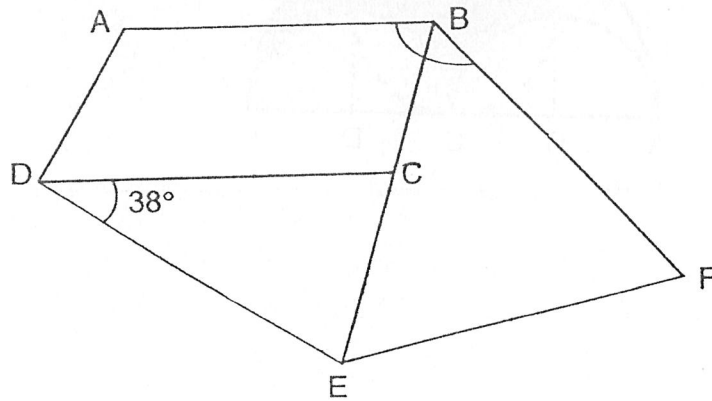
Container B

Ans: _____ [3]

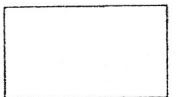


- 8 In the figure below, ABCD is a trapezium where AB is parallel to CD. CDE is an isosceles triangle where $DE = DC$. BEF is an equilateral triangle. Find $\angle ABF$.

Do not write
in this space



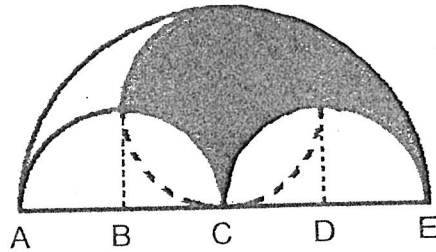
Ans: _____ [3]



(Go on to the next page)

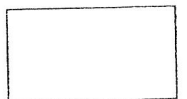
- 9 The figure shows three semicircles and a circle.

Given $AB = BC = CD = DE = 5$ cm, find the perimeter of the shaded part. Leave your answer in terms of π .



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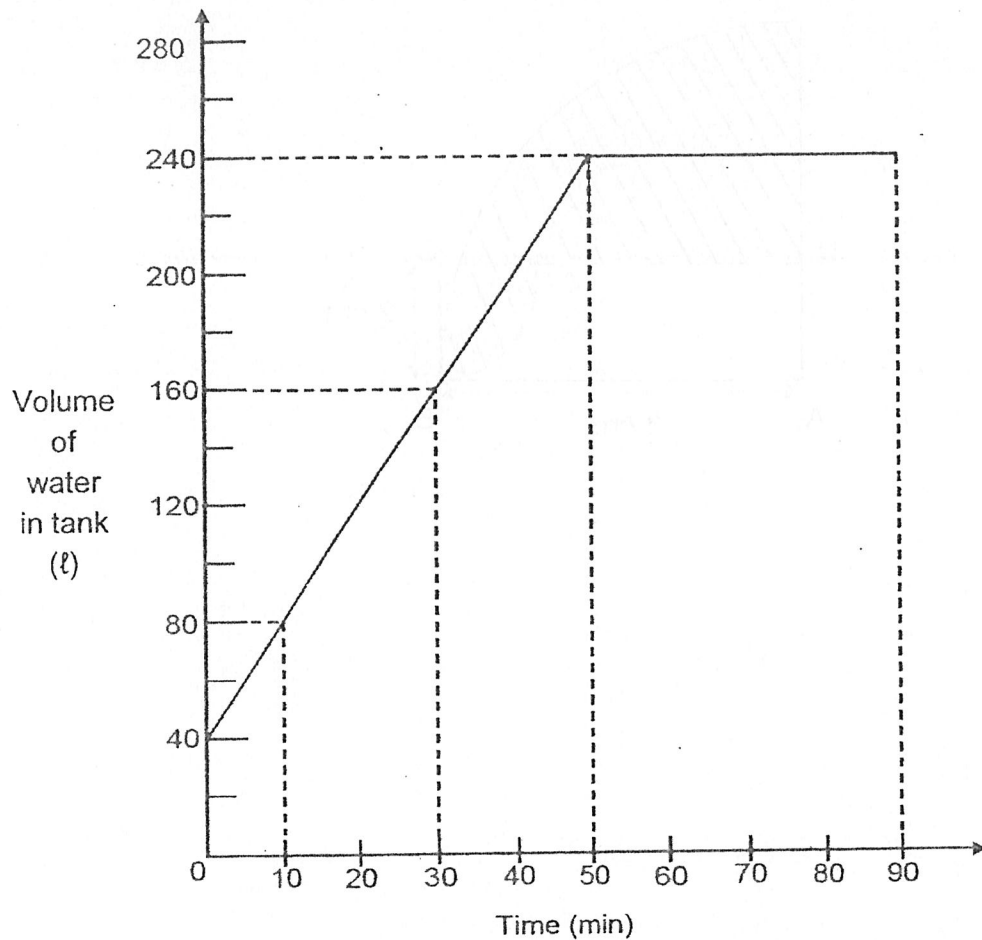
Ans: _____ [3]



10

A rectangular tank contained some water at first. A tap was then turned on to fill the tank completely with water. It was turned off at the end of 90 minutes. The graph below shows the amount of water in the tank at the end of 90 minutes.

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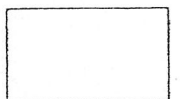


- (a) How much water flowed from the tap into the tank in 1 minute?

Ans: (a) _____ [1]

- (b) How many litres of water overflowed from the tank at the end of 90 minutes?

Ans: (b) _____ [2]

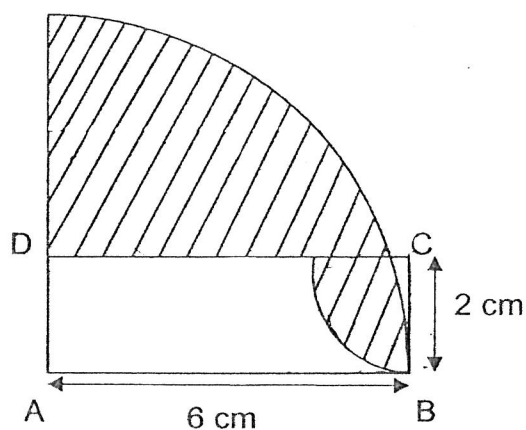


(Go on to the next page)

- 11 The figure below is made up of 2 quarter circles and a rectangle ABCD.

AB = 6 cm and BC = 2 cm. What is the area of the shaded part?

(Take $\pi = 3.14$)



Do not write
in this space

Ans: _____ [4]

- 12 In Country X, the height of six 10-cent coins is the same as that of five 20-cent coins as shown in diagram 1. Diagram 2 shows an unknown number of such 10-cent coins stacked to the same height as another stack of such 20-cent coins.

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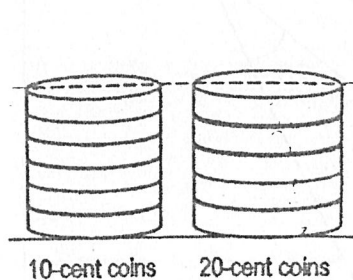


Diagram 1

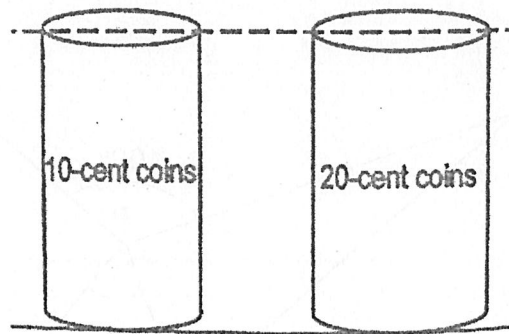


Diagram 2

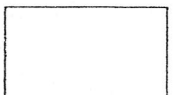
If the total value of the 2 stacks of coins in diagram 2 is \$8,

- (a) find the number of 10-cent coins used in diagram 2.

Ans: (a) _____ [3]

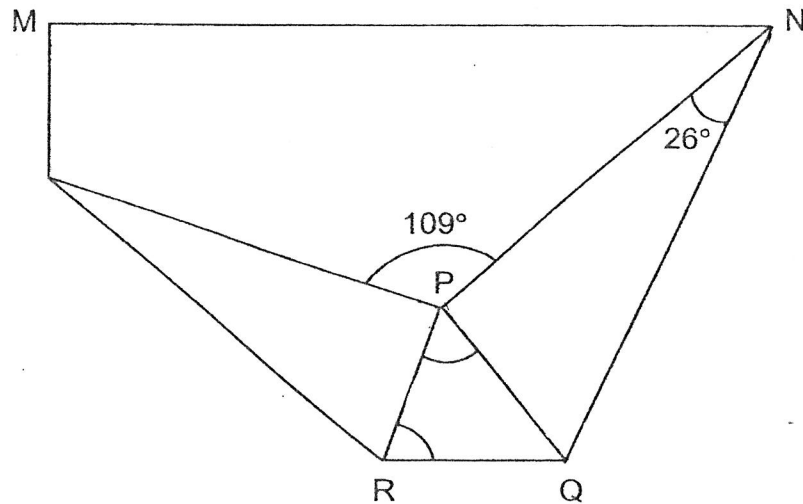
- (b) find the value of all the 20-cent coins used in diagram 2.

Ans: (b) _____ [1]



- 13 A rectangular piece of paper has been folded from the two lower corners as shown below. The two corners meet at P.

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in this space

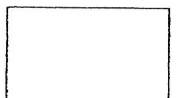


- (a) Find $\angle RPQ$.

Ans: (a) _____ [2]

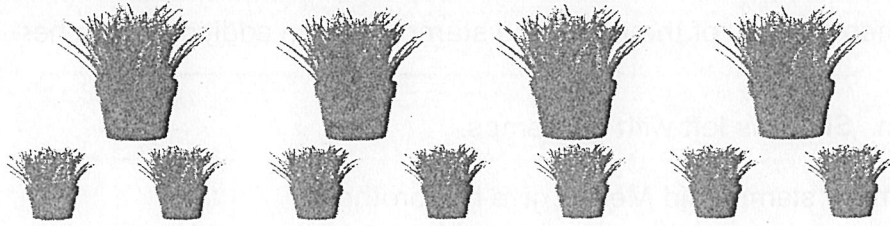
- (b) Find $\angle PRQ$.

Ans: (b) _____ [2]



- 14 Mrs Goh had some money. She used \$53 to pay for 4 identical large potted plants and 7 identical small potted plants.

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If she bought another large potted plant, she would be short of \$3.50.

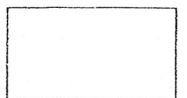
If she bought another small potted plant, she would have \$1.50 left.

- (a) What is the difference in price between the large and the small potted plant?

Ans: (a) _____ [1]

- (b) Find the price of one large potted plant.

Ans: (b) _____ [3]



- 15 Meiling gave $\frac{5}{7}$ of her stamps and an additional 4 to her brother.

She then gave $\frac{1}{2}$ of the remaining stamps and an additional 5 to her

cousin. She was left with 38 stamps.

How many stamps did Meiling give her brother?

Do not write
in this space

Ans: _____ [4]

- 16 40 workers donated money to charity. 60% of them were male workers. Each male worker donated \$20 and each female worker donated \$4 more than each male worker.

Do not write
in this space

- (a) How much money did the female workers donate altogether?

Ans: (a) _____ [2]

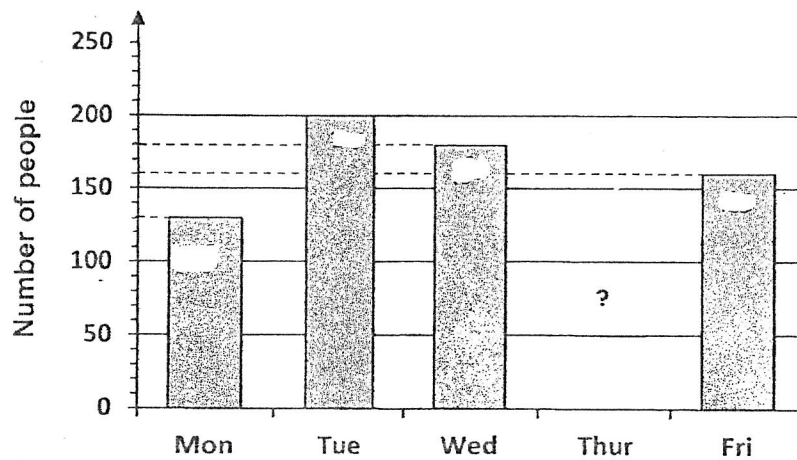
- (b) On the average, how much did each worker donate?

Answer: _____ [3]

(Go on to the next page)

- 17 The graph below shows the number of people at a book fair from Monday to Friday.

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in this space



- (a) The average number of people who visited the book fair from Monday to Friday was 174. How many people were at the book fair on Thursday?

Ans: (a) _____ [2]

- (b) The average number of people who visited the book fair on Saturday and Sunday was 206. 20 more people visited on Saturday than on Sunday. What was the percentage increase in the number of visitors from Friday to Saturday?

Ans: (b) _____ [3]

End of Paper

SCHOOL: NAN HUA PRIMARY SCHOOL

SUBJECT: MATHEMATICS

LEVEL: PRIMARY 6

PAPER: NON-WEIGHTED ASSESSMENT 2

PAPER 1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
3	3	1	1	2	2	4	3
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
2	1	4	4	2	2	2	

SECTION B

Q16 $\frac{18}{1} \times \frac{5}{4} = \frac{90}{4} = 22.5$

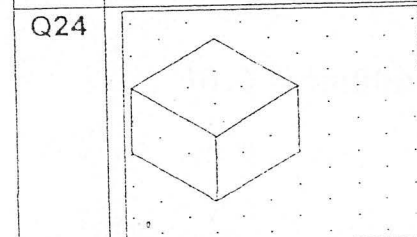
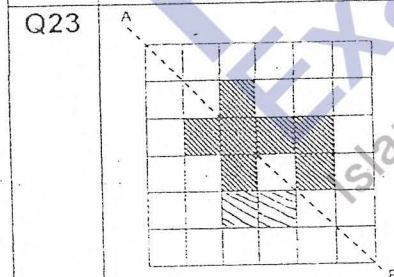
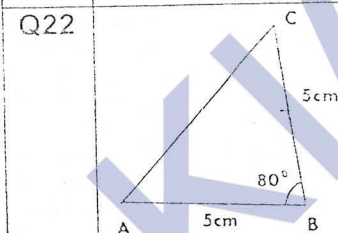
Q17 1400ml

Q18 42

Q19 $\frac{2}{3} \div 3 = \frac{2}{9}$

Q20 East

Q21 $\frac{1}{4} + \frac{1}{2} = \frac{3}{4}$
 $\frac{3}{4} \div 2 = \frac{3}{8}$



Q25 $4 \text{ cups} = \frac{4}{5}$
 $\frac{7}{8} - \frac{4}{5} = \frac{35}{40} - \frac{32}{40} = \frac{3}{40}$

Q26	Area of Rectangle $\rightarrow 10 \times 6 = 60\text{cm}^2$ Area of small triangle $\rightarrow \frac{1}{2} \times 6 \times 8 = 24\text{cm}^2$ Area of shaded $\rightarrow 60 - 24 = 36\text{cm}^2$
Q27	$4w \times 12 = 48w$ $48w \div 3 \times 4 = 64w$
Q28	$\angle DBE = 180 - 90 - 28 = 62$ $\angle ABC = 180 - 65 = 115$ $\angle DBC = 115 - 62 = 53$
Q29	$\$5.70 + \$1.50 = \$7.20$ $\$7.20 \div \$0.60 = 12$
Q30	(a) True (b) False

PAPER 2

Q1. 12.5s

Q2. 3:1

Q3. \$11.40

Q4. \$31200

Q5. 29

Q6. $\angle BAE = 180^\circ - 69^\circ - 78^\circ = 33^\circ$

$$\angle BAC = \frac{180^\circ - 78^\circ}{2} = 51^\circ$$

$$\angle CAE = 51^\circ - 33^\circ = 18^\circ$$

Ans: 18°

Q7. Volume of water in A $\rightarrow \frac{4}{7} \times 28 \times 45 \times 22 = 15840$

Capacity of B $\rightarrow 20 \times 42 \times 11 = 9240$

Volume of water left in A $\rightarrow 15840 - 9240 = 6600\text{ml} = 6.6\text{l}$

Ans: 6.6L

Q8. $\angle DCE = \angle ABC = \frac{180^\circ - 38^\circ}{2} = 71^\circ$

$\angle EBF = 60^\circ$

$\angle ABF = 71^\circ + 60^\circ = 131^\circ$

Ans: 131°

Q9. Diameter of small semi-circle = 10cm

Diameter of large semi-circle = 20cm

Perimeter $\rightarrow \left(\frac{1}{4} \times \pi \times 20\right) + \left(4 \times \frac{1}{4} \times \pi \times 10\right) = 15\pi \text{cm}^2$

Ans: $15\pi \text{cm}^2$

Q10. (a) $\frac{80-40}{10} = 4$

Ans: 4L

(b) $4 \times 40 = 160$

Ans: 160L

Q11. Area of small quarter-circle $\rightarrow \frac{3.14 \times 2 \times 2}{4} = 3.14$

Area of ABCD $\rightarrow 2 \times 6 = 12$

Unshaded area $\rightarrow 12 - 3.14 = 8.86$

Area of bug quarter-circle $\rightarrow \frac{3.14 \times 6 \times 6}{4} = 28.26$

Shaded area $\rightarrow 28.26 - 8.86 = 19.4$

Ans: 19.4cm^2

Q12. (a) $(\$0.10 \times 6) + (\$0.20 \times 5) = \$1.60$

$\$8 \div \$1.60 = 5$

$5 \times 6 = 30$

Ans: 30 10-cent coins

(b) $5 \times 5 = 25$

$25 \times \$0.20 = \5

Ans: \$5

Q13. (a) $360^\circ - 109^\circ - 90^\circ - 90^\circ = 71^\circ$

Ans: 71°

(b) $\angle PQN = 180^\circ - 26^\circ - 90^\circ = 64^\circ$

$$\angle PQR = 180^\circ - 64^\circ - 64^\circ = 52^\circ$$

$$\angle PRQ = 180^\circ - 52^\circ - 71^\circ = 57^\circ$$

Ans: 57°

Q14. (a) $\$1.50 + \$3.50 - \$5$

Ans: $\$5$

(b) $\$5 \times 4 = \20

$$\$53 - \$20 = \$33$$

$$\$33 \div 11 = \$3$$

$$\$5 + \$3 = \$8$$

Ans: $\$8$

Q15. $\frac{1}{2}$ of remainder $= 38 + 5 = 43$

$$\text{Remainder} = 86$$

$$\frac{2}{7} \text{ of total} = 86 + 4 = 90$$

$$\text{Stamps given to brother} = (90 \div 2 \times 5) + 4 = 229$$

Ans: 229 stamps

Q16. (a) $40\% \times 40 = 16$

$$16 \times \$24 = \$384$$

Ans: $\$384$

(b) $40 - 16 = 24$

$$24 \times \$20 = \$480$$

$$\text{Average} \rightarrow \frac{\$480 + \$384}{40} = \$21.60$$

Ans: $\$21.60$

L

Q17. (a) $174 \times 5 = 870$

$$870 - 130 - 200 - 180 - 160 = 200$$

Ans: 200 people

(b) Sunday $\rightarrow \frac{(206 \times 2) - 20}{2} = 196$

Saturday $\rightarrow 196 + 20 = 216$

% increase $\rightarrow \frac{206 - 160}{160} \times 100 = 28.75\%$

Ans: 28.75%

