	TAO RAN SCHOOL & ANY TX
	2024 P6 MATHEMATICS PRACTICE PAPER 3
Na	me: () Date: <u>8 May 2024</u>
Cla	ass: Primary 6 () Duration: <u>1 hour</u>
Pa	rent's Signature: Marks: / 100
Paper	1 comprises 2 booklets, A and B.
-	MATHEMATICS
	PAPER 1
	(BOOKLET A) 20
INIC	
<u>1.</u>	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.	Use a 2B pencil to shade your answers on the Optical Answer Sheet (OAS).
6.	The use of calculators is NOT allowed.

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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 of the following is thirty-five thousand and twenty in numerals?
 - (1) 3520
 - (2) 35 020
 - (3) 35 200
 - (4) 350 020
- 2 Round 6.785 to 2 decimal places,
 - (1) 6.70
 - (2) 6.78
 - (3) 6.79
 - (4) 6.80

3 Which line in the square grid is parallel to AF?



- (1) AB
- (2) BE
- (3) CD
- (4) EF.

Å,

The diagram shows a bookshelf in a <u>school library</u>. Which of the following could be the height of the bookshelf?

- (1) 1 cm
- (2) 5 cm
- (3) 1 m
- (4) 5 m



5 PQ and RS are straight lines.



Which of the following is true?

- (1) $\angle a = \angle c$
- (2). $\angle b = \angle d \cdots$
- (3) $\angle a + \angle d = 180^{\circ}$
- (4) $\angle a + \angle c = 180^{\circ}$

6

In the number line, what is the mixed number represented by A?



1.1

7 Each figure is made up of 5 identical squares. Which one has a line of symmetry?



8 PQRS is a square and PQ = PT. Find \angle TPQ.



- (1) 67°
- (2)...60°
- (3) 46°
- (4) 45°

9

Mr Lim had \$50. After buying 4 identical ties, he had x left. How much did Mr Lim pay for each tle?

- (1) \$(50-4x)
- (2) $\$(50-\frac{x}{4})$
- (3) $\$(\frac{50-x}{4})$
- (4) $\$(\frac{50x}{4})$

	entre and an announcement of the second s		
	1.25 km	1 km 205 m	$1\frac{2}{5}$ km
	Shortest_		Longest
(1)	1 km 205 m	$1\frac{2}{5}$ km	1.25 km
(2)	1 km 205 m	1.25 km	$1\frac{2}{5}$ km
(3)	1.25 km	1 km 205 m	$1\frac{2}{5}$ km
(4)	$1\frac{2}{5}$ km	1.25 km	1 km 205 m

10 Arrange these distances from the shortest to the longest.

11 In the television guide shown, one programme leads to another without any break in between.

Start Tim	e. Programme	
9.00 a.n	n. Cartoon	
10.10 a.r	m. Music	
11.30 a.r	m. Sports	
12.20 p.r	m. News	
	a a successive sector of the	and the second secon

How much longer is the Music programme than the Sports programme?

- (1) 30 min
- (2) 50 min
- (3) 1 h 10 min
- (4) 1 h 20 min

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12 A group of children was asked to choose one fruit from Apple, Mango, Orange and Pear. The table represents the children's choices. The children's choices were also represented by a bar graph but the names of the fruits were not shown.

Fruit	Percentage of children	40 - 32 -
Apple	10%	Number -
Mango	20%	children
Orange	25%	16
Pear	45%	8

What was the total number of children who chose Apple and Orange?

- (1) 28
- (2) 35
- (3) 36
- (4) 45
- 13 Figure 1 shows a rectangular tile with a perimeter of 14 cm. Figure 2 is formed using 5 such tiles.



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Find the perimeter of Figure 2.

- (1) 42 cm
- (2) 49 cm
- (3) 56 cm
- (4) 70 cm

14 A florist had some roses and tulips. She sold $\frac{1}{3}$ of the roses and $\frac{4}{9}$ of the tulips. $\frac{7}{11}$ of the flowers sold were roses. What fraction of the flowers did the florist sell?

(1) $\frac{11}{21}$ (2) $\frac{11}{27}$ (3) $\frac{11}{30}$ (4) $\frac{11}{36}$

15 The pupils at a camp are divided into Group A and Group B. The ratio of the number of boys to girls in Group A is 5 : 4. The ratio of the number of boys to girls in Group B is 5 : 1. There are 3 times as many pupils in Group B as in Group A.

Which of the following could be the total number of boys in both groups?-

- - (2) 30
 - (3) 40
 - (4) 55

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		IN SCHOOL VE /	日本		
<u>2024 P6 N</u>	<u>NATHEMA</u>	TICS	<u>PR</u> /	ACTICE PAPER 3	
Name:		()	Date: <u>8 May 2024</u>	
Class: Primary 6 ()			Duration: <u>1 hour</u>	
Parent's Signature:					
er 1 comprises 2 boo	klets, A and	B.			

	•	MATHEMATICS PAPER 1 (BOOKLET B) 25	
	INS	STRUCTIONS 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. Show your working clearly.	
	5.	Write your answers in this booklet.	
	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 fluid/tape or highlighters on any part of your answers.	
	8.	The use of calculators is <u>NOT</u> allowed.	

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Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. Do not write For questions which require units, give your answers in the units stated. in this space (5 marks) 16 Round 13 845 to the nearest hundred. Ans: 17 Write down all the common multiples of 4 and 6 that are smaller than 30. Ans: Find the value of $\frac{3}{4} \div 15$ 18 Give your answer as a fraction in the simplest form. _____Ans: _____ . Devi has \$10. She spends 95¢ on a bun and 60¢ on a drink. 19 How much money does Devi have left? Ans: \$ _____ 20 The figure is made up of equilateral triangles. What fraction of the figure is shaded? Anš:_____



(Go on to the next page)



26	What is the percentage discount f	or the	bag sho	own?			Do not write in this space
	SALE PRICE \$48 Usual Price: \$60	7		D			
		Ā	.ns:			%	
27	The table shows the number of Part of the table is covered by at least 2 storybooks.	storyt an ink	books r blot. T	ead I here	by each pur were 45 pu	bil In a group. pils who read	
	Number of storybooks	0	<u> </u>	2	3	4	an a
	Number of pupils	7	8	20		<u></u>	
Each given	of the statements is either true, fal . For each statement, put a tick (\checkmark)	se or r to ind	iot pose icate yo	sible i bur ar	to tell from ti aswer.	he information	
	Statement	ľ	True	•	False	possible to tell	
7 pu	pils did not read any storybooks.						
Ther	e were 80 pupils in the group.						
The was 4 sto	number of pupils who read 3 storybo equal to the number of pupils who prybooks.	ooks read		<u></u>			
					an a		

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28	A roll of tape has stars and hearts printed in a repeated pattern.	Do not write in this space
	$\Box \Box $	
	Mabel cuts a piece of tape from the roll. In that piece, there are 135 stars. Find the possible numbers of hearts on that piece of tape.	
	Ans:	
29	The figure shows a square divided into two smaller squares A and D and two rectangles B and C. The total perimeter of rectangles B and C is 48 cm. The area of square A is 25 cm ² .	, ,
[.]	A B C D	· · ·
	What is the area of square D?	
	Ano:	



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TAD INAN SCHOOL 32, A1 5° 722							
2024 P6 MAT	HEMATICS PR	ACTICE PAPER 3					
Name:	()	Date: <u>8 May 2024</u>					
Class: Primary 6 ()		Duration: <u>1 hour_30 minutes</u>					
Parent's Signature:							



		• 	······································	(1)	marks)	
1 U	lse all the digits	2, 3, 5, 8 to for	m			
(;	a) the smal	llest multiple of	15			
(b) the grea	test number be	etween 3000 and 4000			
			Ans: (a)			
٠			(b)			
2 T	he table shows	the times take	n by four boys to comp	lete a race,		
		Name	Time in seconds			
		Dinesh	14.1			
		Ismail	15.0			
		Ming	13.8			
		Paul	13,9			
(*) What wa			ya to complete the		
			Ans: (a)			
1.			Ans: (a) (b)		S	
3 M TI	atthew has a ro he lengths of the	ppe which is 64 three pieces (u+8) cm	Ans: (a) (b) cm long. He cuts it int of rope are as shown.	o three pieces. Find the value of <i>u</i> .	S	

4 Shanti took a taxi from home to her office. Her taxi fare was based on the charges shown.

First 1 km	\$3.20
Every additional 400 m or less	\$0.22
Every 45 seconds of waiting or less	\$0.22

The taxl stopped once at a traffic light for 1 mln and travelled a total distance of 5.8 km to reach Shanti's office. How much was her taxi fare?

Ans: \$__

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5 A square is first divided into two equal halves. The top half is divided into 5 equal parts while the bottom half is divided into 4 equal parts.



The total area of the shaded parts is 165 cm². What is the area of the square?

Ans: _____

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(Go on to the next page)

cm²

Do not write

in this space





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			-	
	8	On Fri 7 : 6 : Howey decrea	iday, the ratio of the number of adults to boys to girls visiting a zoo was 5. On Saturday, the number of adults visiting the zoo remained the same. ver, the number of boys increased by 50% and the number of girls ased by 40%.	Do not write In this space
		(a)	What was the ratio of the number of adults to boys to girls visiting the zoo on Saturday?	
		(b)	On Friday, 627 boys and girls visited the zoo. What was the total number of visitors at the zoo on Saturday?	
			• •• · · · ·	
			·	
			-	
			Ans: (a)[1]	
•	ye-ik-ik-muta		(D)[2]	

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				9		
,	11	The p	photocopying rates of two mac	hines, P and Q are as sho	พก.	Do not write in this space
			P: 2 pages per second	Q: 7 pages every 5 se	conds	
		Both divide Mach	machines were used to mak ed into Part 1 and Part 2. Mach ine Q took 8 minutes to photo	e a copy of a set of note nine P took 7 minutes to pr copy Part 2.	es which had been totocopy Part 1 and	
		(a)	How many pages were then	e altogether in the set of n	otes?	
		(b)	Another copy of the same s How many minutes díd Mac	et of notes was made usin hine Q take?	g Machine Q only.	
. .						· •
						<i>a</i>
)
				Ans: (a)	[2]	
	**			(b)	[2]	

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12 The figure is formed by two identical circles with centres at A and C. ABCD is a square and the length of AB is 15 cm.



- (a) Find the perimeter of the unshaded part.
- (b) Find the total area of the shaded parts.

(Take $\pi = 3.14$)

Ans:	(a)	[1]	Í
	(b)	[3]	

Do not write in this space

	13	Mr Lin pens s	n had blue pens and red pens for sale. He sold 270 blue pens. 25% of the sold were red.	Do not write In this space
		(a)	How many blue pens and red pens did Mr Lim sell altogether?	
		(b)	He sold 40% of his pens. 30% of the pens left unsold were blue. How many red pens did Mr Lim have at first?	
				:
				-
			· · · · · · · ·	
			Ans: (a) [1]	· · · · · · · · · · · · · · · · · · ·
			(D)[3]	
•				

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11. A.A.

11





Ans: (a)

(b)

(Go on to the next page)

[1]

[2]



		,0	
17	Mrs V as mi	Vu spent $\frac{1}{6}$ of her money on a dress and 2 blouses. The dress cost 3 times uch as each blouse. Mrs Wu spent $\frac{3}{6}$ of her remaining money on a watch	Do not write in this space
	She s	spent \$220.50 more on the watch than on the dress.	
	(a)	What fraction of Mrs Wu's money was spent on each blouse?	
	(b)	How much money did Mrs Wu have at first?	
-			
		· ·	
· •			
			:
		Ans: (a) [1]	····
		(b) [4]	
		(~/ (~)	L

End of Paper

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SCHOOL LEVEL SUBJECT TERM	: TAO NAN SCHOOL : PRIMARY 6 : MATH : 2024 SA1
Q1 0 2 Q11 Q 1 Q	12 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 3 3 3 2 4 4 3 3 2 . 12 Q13 Q14 Q15 1 1 3 4
Q16) 1380 Q17) 12, 2	24
Q18) $\frac{1}{20}$	QD
Q19) \$8.4	5
Q20) <u>5</u> 16	Q a
Q21) a)5 x . b)9 ⁴ / ₉	7 + 6 = 41
Q22) a	
Q23) <360	$-60 - 65 = 235^{\circ}$
Q24) a)8.0 b)10	9°
Q25) a)95 b)8°0	°C S/min
Q26) 20%	
Q27) True Fals Fals	
Q28) 54	

Pg 1

SgTestPaper.com Q29) 48 - 5 - 5 - 5 - 5 - 5 - 5 - 28 28 ÷ 4 = 7 Papers 7 x 7 = 49 cm2 Papers Q30) a),b)

Word Problem Worksheet & Solutions Tao Nan Paper 2 P6 Mathematics SA1 2024 Show your working clearly in the space provided for each question and write your answers in the spaces provided. Questions can be found at the end of the worksheet.

- 1. a) 2385
 - b) 3852
- 2. a) Mingb) 14.2
- 3. u + 8 + u + 2u = 64 4u + 8 = 64 4u = 56u = 14
- 4. First 1 km = \$3.20
 Remaining 4.8 km = 4800 ÷ 400 x 0.22
 = \$2.64
 1 min waiting = 0.22 x 2 = \$0.44
 \$3.20 + \$2.64 + \$0.44 = \$6.28
- 5. Top half = $\frac{1}{2} \times \frac{3}{5} = \frac{3}{10}$ Bottom half = $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ $\frac{3}{10} + \frac{1}{4} = \frac{11}{20}$ $\frac{11}{20} \rightarrow 165 \text{ cm}^2$ $\frac{20}{20} \rightarrow 165 \div \frac{11}{20} = 300 \text{ cm}^2$

*Challenging

6. a)
$$\angle x = 180 - 51 - 41 = 88^{\circ}$$

b) $\angle a = 180 - 88 = 92^{\circ}$
 $\angle y = 180 - 92 - 31 = 57^{\circ}$

7.		Gold Star	Silver Star	
	Given away	26	14	
	Remainder	1u	3u	
		6	18	if u = 6
	Number at first	26 + 6	14 + 18	
		= 32	= 32	
	Total at first = 32 +	32 = 64		

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Ans: 64
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8. a)

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	Adult	Boys	Girls	
Friday	7	6	5	
Saturday	7	6 x 150%	5 x 60%	
	7	9	3	
Ratio on Saturday =	= 7:9:3			
b)				
Friday, $6u + 5u = 62$	27			
11u = 627				
u = 57				
Number on Saturday = $(7 + 9 + 3) \times 57 = 1083$				
			Ano: 6	

Ans: a) 7:9:3

b) 1083

9. a) $\angle ABD = \frac{1}{2} \times (180 - 106) = 37^{\circ}$ b) $\angle ADF = 37^{\circ}$ $\angle GCB = 180 - 76 = 74^{\circ}$ c) $\angle FDE = 180 - 106 - 37 = 37^{\circ}$ $\angle DFE = 180 - 37 - 126 = 17^{\circ}$ $\angle EFB = 180 - 17 = 163^{\circ}$

> Ans: a) 37° b) 74° c) 163°

10. a) 150 + 175 + 25 = 350 b) Blue c) $\frac{105}{125} \times 100\% = 84\%$

Ans: a) 350

b) Blue

c) 84%

11. a)

Machine P pages = $7 \times 60 \times 2 = 840$ Machine Q pages = $8 \times 60 \times 7 \div 5 = 672$ Total = 840 + 672 = 1512b) Time taken in Machine Q = $1512 \div 7 \times 5 = 1080$ sec = $1080 \div 60 = 18$ min

> Ans: a) 1512 b) 18 min

12. a)

Perimeter of unshaded part = $\frac{90}{360} \times 2 \times 3.14 \times 15 \times 2 = 47.1 \text{ cm}$ b) Area of quarter circle = $\frac{90}{360} \times 3.14 \times 15 \times 15 = 176.625 \text{ cm}^2$ Area of half square = $\frac{1}{2} \times 15 \times 15 = 112.5 \text{ cm}^2$ Area of half lip shape = $176.625 - 112.5 = 64.125 \text{ cm}^2$ Area of full lip shape = $65.125 \times 2 = 128.25 \text{ cm}^2$ Area of shaded ABCD = $15 \times 15 - 128.25 = 96.75 \text{ cm}^2$ Area of 2 x $\frac{3}{4}$ of circle = $\frac{3}{4} \times 3.14 \times 15 \times 15 \times 2 = 1059.75 \text{ cm}^2$ Total shaded area = $1059.75 + 95.75 = 1156.5 \text{ cm}^2$

b) 1156.5 cm²



Ans: 135

15. a) Distance = 9 + 7 + 7 + 7 = 30 cm b) 198 - 9 = 189 $189 \div 7 = 27$ Number of rings = 27 + 1 = 28

Ans: a) 30 cm

b) 28

16. a)

 $(15 \times 25 - 279) \div 6 = 16 \text{ cm}^2$ b) Perimeter of F1 = 25 + 15 + 25 + 15 = 80 cm Perimeter of P2 = 80 + 54 = 134 cm 134 - 25 - 25 = 84 cm 2 sides of triangle = 84 ÷ 6 = 14 cm 3rd side of triangle = 15 ÷ 3 = 5 cm Perimeter of 1 triangle = 14 + 5 = 19 cm

> Ans: a) 16 cm² b) 19 cm

17.

a) Let cost of 1 blouse = uCost of 2 blouse = 2uCost of 1 dress = 3uTotal cost of 2 blouse & 1 dress = 5u Fraction of 1 blouse cost = $\frac{1u}{5u} \times \frac{1}{6} = -\frac{1}{30}$ b) Fraction of watch cost = $\frac{3}{4} \times \frac{5}{6} = \frac{5}{8}$ Fraction of dress cost = $\frac{3u}{5u} \times \frac{1}{6} = \frac{1}{10}$ Ratio of watch cost to dress cost = $\frac{5}{8}$: $\frac{1}{10}$ = 25 : 4 = 25p : 4p Difference = 25p - 4p = 21p = \$220.5 $p = 220.5 \div 21 = 10.5$ Cost of dress = $4p = 4 \times 10.5 = 42 $\frac{1}{10} \rightarrow$ \$42 $\frac{10}{10} \rightarrow 42 \text{ x } 10 = \$420 = \text{Money at first}$ Ans: a) $\frac{1}{30}$ b) \$420