

		- 444	
1	(a)	0·3943	
2	(b) (a)	$2^2 \times 3^3 \times 11$	
der	(b)	The power of the prime bases are not multiples of	
	(0)	3.	W. 111111111111111111111111111111111111
3	······································	k k	
	P.	$\forall Y = \frac{k}{27x^3}$	
		$=\frac{1}{27}\left(\frac{k}{x^3}\right)$	
		$\frac{1}{27} \times 18 = \frac{2}{3}$	
4	(a)	3	
	(b)	$y = 0.5^{*}$	
5	<u> </u>	Let x be the original amount of revenue.	
		100010 - 60010 = 40010 x = 5000 = (40)	Application of the state of the
		40 k = 5000 = 12500	Ans: \$12500
		100	W112 - 311700
6	(a)	$\frac{40}{100} = 5000 = 12500$ $\sin 2590 = \frac{8}{12}$	
		= 1	TAXAA AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
	(b)		
		Cos LSQR = - Cos LSQP	
		= - 8 12 = - 2	
		= - 1	
7	(a)	1 0	
		17	
	(L)	$\frac{1}{2+3(n-1)} = \frac{n}{3n-3+2} = \frac{n}{3n-1}$	
	(b)		
8		The axis does not start from zero.	400
		It may cause people to think that the percentage of respondents who likes Xphone is three times more	Commission of the Commission o
		than the percentage of respondents who likes	
		Starphone.	
9	(a)	· - 1 < 3 x - 4 < 8	nitro escapa
		32-4>-12 32 < 12	***
		32> - > - > - > - > - > - > - > - > - > -	The state of the s
•		*>= : = < × ≤ 4	
	(b)	6 " 6	
	(0)	Communication and a second sec	
	<u> </u>	0 11 2 3 4 K	
		61	



	inese Schoo (er Road)		, ,		
					:
				j	
10	(a)	3.93×10 <sup>6</sup> -3.81×10 <sup>6</sup>			
		=120000			
		i			
	(b)	=1.2×10 5			
	(0)	$=1.2\times10^{5}$ $\frac{1.01\times10^{6}-9.54\times10}{1.01\times10^{6}}\times100\%$		ļ	
		= <b>5</b> .5445			
11		$= \cdot 5.54\%(3sf)$ $(n-2)\times180 = 125+120+140+155+135(n-4)$			
11		1			
		180n - 360 = 540 + 135n - 540			
12	(a)	n = 8 1:40000			
12	(a) (b)	1.40000 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	CM5		
	(5)	1.40000 1 cm: 0.4 km Avea on map = $\frac{1.37}{0.16} \times 1$ 1 cm <sup>2</sup> : 0.16 km <sup>2</sup> = 8.5625	2		
13	(0)		cw		
10	(a)	Construction ( Refer to drawing attached)			
	(b)	1 perpendicular bisector			
		Point of intersection of 3 perpendicular bisectors			
1.4	( )	07.5			
14	(a) (b)	87.5g ≤ mass < 98.5g			
	(0)	88.5			
		99.5			
		= 0.889447			
		$= 0.889 g / cm^3 (3sf)$			
15	(a)	$x-6x+\left(-\frac{6}{2}\right)^2+6-\left(-\frac{6}{2}\right)^2$		To find y-inte	.rcep#1
		$\left(\frac{x-0x+\left(-\frac{\pi}{2}\right)}{2}\right)+0-\left(-\frac{\pi}{2}\right)$		When x=01	ļ
		$\frac{1}{7}(x-3)^2-3$		4= (0-3)2	-3
		Y= x2-6x+6		= 6	***
	(b)	\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
		6 t	7	o find k-inter	cht21
				When 9 =01	
				(x-3)2-3=0	
		5 3 (A.73) ×		$(x-3)^2=3$	****
		-3 1.21 3 A.73 (3, -3)		x-3 = ±43	Ì
		(3, -3)		スーュニニハコ	
				x-3=-13 0	۶ کل <u>ے ہے</u> ۔
				x= 12+3	¥=-√
				= 4.7321	= 1.5
		2			= \.
				= 4·73	

PartnerInLearning

(35.6.)



<u> (Bark</u>	er Road)				
16	(a)	10xy - 12x + 15y - 18			
	Analysis of the Control of the Contr	=2x(5y-6)+3(5y-6)			
		=(2x+3)(5y-6)			
	(b)	$xy^3 - x^3y$			
	ana and management	$=xy(y^2-x^2)$			
		$= xy(y-x)(y+x)$ $9q^4r^{-4}$			
17	(a)	$9q^4r^{-4}$			
		$=\frac{9q^4}{r^4}$			
	(b)	$7^k = 7^{\frac{3}{2}}$			***************************************
		$k=\frac{3}{2}$	Author VI chanter of		
		$\kappa = \frac{1}{2}$	mpagagaga ay mpadada		
18	(a)	$\frac{80}{360} \times 2\pi (1.6)$	A WASHINGTON	THE ACTION OF TH	
	:	360 = 2.234	To the second se	A WARRING TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO T	
Andrew Arthur Andrew Arthur Ar		= 2.23 m (35.6.)		AAAAAAAAA	
		2 1/ 13 W C35 ( )			
	(b)	Let the intersection of $AB$ and $PC$ be $X$ .		value and a second a second and	
		PY		Advantaged vocasses	
OVAT I WARRANGE WOOD		$\cos 40^\circ = \frac{PX}{1.6}$	POAR POORANIA PAR	vooronamen v	
Manage page many based		$PX = 1.6\cos 40^{\circ} = 1.22567$		45-4-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6	
E-PROPERTY OF THE PROPERTY OF			Marine Marine Andrews	THE STATE OF THE S	accessory to the second
***************************************		Height of C above the ground	V V V V V V V V V V V V V V V V V V V		
÷		=0.5-(1.6-1.22567)	-	/ 2000000000000000000000000000000000000	
- Aller - Alle		= 0.12567		Permit Promor Pro-	
		= 0.126 (35.6.)	Appanos	Angulari Manana	
- Commonwealth		No the ball will not collide with the statue because the height of C above the ground is 0.126m, more	No. of the last of	· ·	
(Managed States)		than the height of the statue.	one of the second	**************************************	
Media Parintania Vocania			THE PERSON NAMED IN COLUMN NA	renovement late.	



Anglo-Chinese School (Barker Road)

<u>toark</u>	rennoadi					
19		$\sqrt{x^2 + y^2} = 5$				
		$y = -\frac{4}{3}x$				
		$x^2 + (-\frac{4}{3}x)^2 = 25$				
		$x^2 = 9$				
		$x=3 \text{ or } -3 \implies Q(3,6)$	Sin	ce point pisa	n tre	bositing
		$\sqrt{3r+3r}=2 \qquad 3r=19$	Y	-axisi		
				: p(0,4)		
		9+42=25 4= +76= +4				
20	(a)	The van was travelling at constant speed of 18 m/s.				
	(b)	Let x be the speed of the Nan at 14.55. $\frac{x}{18-14.5} = \frac{18}{4}$				
		x = 15.75 :. Speed of von = $15.75$ m/s.				
	(c)	Total distance travelled				
		$=\frac{1}{2}\times (18+8)\times 18$				
		= 234 m		,		

Total time taken = 185

Aug. Speed = 134 m

= 13 m/s

The diagram below shows a map of Singapore. Joe is staying at point A, Elliot is staying at point B and Thaddeus is staying at point C.

Using suitable methods of construction with a ruler and a pair of compasses,

- locate where Elliot is staying and label it with 'B' given that  $\angle BAC = 50^{\circ}$  and  $\angle ACB = 53^{\circ}$ , and [1]
- (b) find the best place for Joe, Elliot and Thaddeus to meet so that everyone travels an equal distance to the meeting place. Label the best place with 'M'. [2]

Answer (a), (b)

