	SEC	
1.	$0.3 = \frac{3}{10}$ $\frac{3}{10} = \frac{3}{1} \times \frac{1}{10} = 3 \times \frac{1}{10}$ $\frac{\text{Ans: } 1}{10}$	
2.	Total cost of the 2 pencils = $$3.50 \times 2 = 7.00 Change received = $$10.00 - $7.00 = 3.00 Ans: \$3.00	
3.	$6\% = \frac{6}{100} \text{ when reduced by } 2 = \frac{3}{50}$ Ans: $\frac{3}{50}$	
4.	Ans: The pattern increases by 0.2	
5.	1 m = 100 cm 2 m = 2 x 100 = 200 cm 200 x 0.6 = 120 cm <u>Ans: 120 cm</u>	
6.	Selling price = Cost Price – Loss = \$600.00 – \$75.00 = \$525.00 <u>Ans: \$525.00</u>	
7.	$6^3 = 6 \times 6 \times 6$ = 36 x 6 = 216 <u>Ans: 216</u>	
8.	Number of cases of water = 192 ÷ 24 = 8 cases of water Ans: 8 cases of water	
9.	Largest decimal = 49.7. Smallest decimal = 4.5 49.7 + <u>4.5</u> <u>54.2</u> <u>Ans: 54.2</u>	
10.	$\frac{\frac{65}{100}}{\frac{1}{100}} \times \frac{\frac{300}{1}}{\frac{1}{1}} = 65 \times 3 = 195$ <u>Ans: 195</u>	

<u> </u>								
11.	1 kg = 1 000 g 800 kg = 800 x 1 000 = 800 000 g <u>Ans: 800 000 grams</u>							
12.	$\frac{3}{4} \times \frac{60}{1} = 45$ minutes $1\frac{3}{4}$ hours = 1 hr 45 mins							
	Time the movie finished = hr min 5 20 + $\frac{1 \ 45}{6^{+1} \ 65^{-60}}$ 7 05 = 7:05 p.m. <u>Ans: 7:05 p.m.</u>							
13.	Number of small cubes in the figure = 3 x 3 x 2 = 18 cubes Volume of the object = Number of small cubes x Volume of each small cube = 18 x 8 cm ³ = 144 cm ³ <u>Ans: 144 cm³</u>							
14.	Perimeter = Side x 4 = 12 cm x 4 = 48 cm <u>Ans: 48 cm</u>							
15.	Ans:							
16.	Ans:SolidNumber of VerticesCone1							

17.	Quarter turn = 90° Number of quarter turns the arrow turned = 270° ÷ 90° = 3 <u>Ans: 3 quarter turns</u>
18.	Number of tyres sold in total = (1 + 4 + 3 + 6 + 4 + 3 + 4) x 4 = 25 x 4 = 100 tyres <u>Ans: 100 tyres</u>

19.	Ans: Maths and Literature
20.	Total = Mean x Number of numbers = 44 x 6 = 264 <u>Ans: 264</u>

	SEC	TION	2
21.	$7^2 = 7 x7 = 49$ Missing number		25.
	= 86 - 49 = 37		
	<u>Ans: 37</u>		
22.	$15\frac{1}{2} = \frac{31}{2} \qquad 3\frac{1}{4} = \frac{13}{4}$		
	$\frac{\frac{31}{2} \div \frac{13}{4}}{\frac{2}{2} \div \frac{13}{2}} = \frac{\frac{31}{2}}{\frac{2}{13}} \times \frac{\frac{4}{2}}{\frac{13}{2}} = \frac{\frac{62}{13}}{\frac{13}{2}} = 4\frac{\frac{10}{13}}{\frac{10}{13}}$		26.
	13		
23.	Total number of ties in one of each size bag = 3 + 9 = 12 ties		
	Number of bags containing 3 and 9		
	ties each = 156 ÷ 12 = 13 bags each		
	Ans: 13 bags each		
24.	$\frac{15}{100} \times \frac{40}{1} = \frac{60}{10} = 6 \text{ tomatoes fewer}$ were sold on Sunday		
	Number of tomatoes sold on		
	Sunday = 40 – 6 = 34 tomatoes		
	Total number of tomatoes sold on Saturday and Sunday		
	= 40 + 34 = 74 tomatoes		
	Total amount of money made from the sale of tomatoes for the 2 days		
	= 74 x \$4.00 = \$296.00		

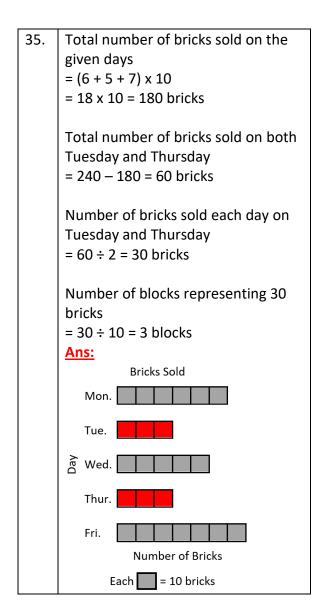
Ans: \$296.00

SECTION 2	
------------------	--

12	
25.	26 + 42 = 68 123 $x 68 984 7380 8364 Ans: 8 364$
26.	Jerry's regular daily wage = Hourly rate of pay x Number of regular hours worked = \$60.00 x 8 = \$480.00 Jerry's overtime rate of pay = $1\frac{1}{2}$ x Hourly rate of pay = $\frac{3}{2 \cdot 1}$ x $\frac{60 \cdot 30}{1}$ = 3 x 30 = \$90.00 Number of overtime hours worked = $11 - 8 = 3$ hours overtime Jerry's overtime wage for Monday = \$90.00 x 3 = \$270.00 Amount of money Jerry earned on Monday = Regular daily wage + Overtime wage for Monday = \$480.00 + \$270.00 = \$750.00 Ans: \$750.00

27.	Percent of the cars that remained = 100% – 40% = 60%
	Percent of the cars James kept = $\frac{3}{5 \cdot 1} \times \frac{\frac{60 \cdot 12}{100}}{100} = \frac{36}{100} = 36\%$
	$\frac{-5}{5} \frac{1}{100} - \frac{1}{100} - \frac{30\%}{100}$
28.	Quil = X Byron = X + \$6.00
	X + X + \$6.00 = \$56.00 X + X = \$56.00 - \$6.00 = \$50.00 $X = $50.00 \div 2 = 25.00 Amount of money Byron received = \$25.00 + \$6.00 = \$31.00 <u>Ans: \$31.00</u>
29.	The length of each of the smaller objects = 12 cm ÷ 3 = 4 cm <u>Ans: All the edges of each smaller</u> <u>solid are the same length, so the</u> <u>type of solid is a cube.</u>
30.	Number of comics packed in Boxes A and B = 40 x 2 = 80 comics
	Number of comics packed in Box C = 140 – 80 = 60 comics
	Fraction of comics that was packed in Box C
	$=\frac{\frac{60}{140}}{\frac{140}{7}}$ when reduced by $20 = \frac{3}{7}$ Ans: $\frac{3}{7}$
31.	Length of each pen = 9.0 cm – 2.5 cm = 6.5 cm
	Total length of 8 identical pens = 6.5 cm x 8 = 52 cm
	100 cm = 1 m Total length of 8 identical pens in metres = 52 cm ÷ 100 = 0.52 m <u>Ans: 0.52 m</u>

Five past ten in the morning is								
written as 10:05 a.m.								
Mary left home at the earlier time.								
_								
f								
and curved								
Ans: Shape A is a solid shape called								
a cube that has 6 square faces, 12								
edges and 8 vertices. Shape B is a								
plane/flat shape called a square								
with 4 equal sides and 4 right								
angles.								
S ⁻								



36. Two smallest bands are Carnival Lovers and Seasons of the Year
1 500 + 2 900 = 4 400 The biggest band is Birds of the Caribbean = 4 500 <u>Ans: No, it would not be the biggest</u> <u>band.</u>

SECTION 3

37. 1 loaf of bread = 3 eggs 8 loaves of bread = 3 x 8 = 24 eggs
1 cake = 5 eggs 4 cakes = 5 x 4 = 20 eggs
Total number of eggs used = 24 + 20 = 44 eggs
Total number of eggs purchased = 12 x 4 = 48 eggs
Number of eggs remaining = 48 - 44 = 4 eggs
Ans: 4 eggs

38.	Number of cubes in container = L x W x H = 3 x 3 x 3 = 27 cubes
	Volume of each cube = 3 cm x 3 cm x 3 cm = 27 cm ³
	Volume of container = 27 cubes x 27 cm ³ = 729 cm ³ <u>Ans: 5 m</u>

39.	(a)			40.	(a)
	<u>Ans:</u>				Total amount of money saved
	Number	Types of Faces			= Mean amount of money saved
	of Edges				x Number of days
	9	Triangular and			= \$12.00 x 5 = \$60.00
		rectangular			
		Ŭ			Total amount of money saved on
	(b)				the given days
		uilateral triangle			= \$12.00 + \$13.50 + \$10.00 + \$13.50
					= \$49.00
	(c)				
	• •	le X = 180° ÷ 3 = 60)°		Amount of money saved on
	Ans: 60°		-		Thursday
					= \$60.00 - \$49.00 = \$11.00
					Ans: \$11.00
					(b)
					Ans: \$13.50
					(c)
					Money Lewis still needs to save
					= \$75.00 - \$60.00 = \$15.00
					Ans: \$15.00
					1

	JLC	Τ.
1.		9.
	Hundreds Tens Ones Tenths Hundredths 6 2 4 . 9 1	
	Ans: $\frac{5}{10}$ or <u>9 tenths</u>	1(
2	5 when reduced by $\Gamma = \frac{1}{2}$	1
2.	$\frac{100}{100}$ when reduced by $5 = \frac{1}{20}$	
	Ans: $\frac{1}{20}$	
	-	
3.	$\sqrt{81} = 9$	1
	9 ÷ 3 = 3	
	$1^2 - 1 + 1 - 1$	
	$1^2 = 1 \times 1 = 1$ 3 = 2 + 1	
	<u>Ans: 2</u>	
		12
4.	$\frac{\frac{12}{16}}{\frac{16}{4}} \times \frac{100}{1} = \frac{3}{\frac{4}{1}} \times \frac{100}{1} = \frac{25}{1}$	
	$\frac{16}{1}$ $\frac{4}{1}$ $\frac{1}{1}$ 1	
	<u>Ans: 75%</u>	
		13
5.	(4 x 5) + 3 = 20 + 3 = 23	
	$\frac{23}{5}$	
	Ans: $\frac{23}{5}$	
	5	
6.	74	
	x 12	
	<u>148</u>	
	740	
	<u>888</u>	
	<u>Ans: 888</u>	
7.	$5\% = \frac{5}{100} = 0.05$	
	Ans: 0.05	
	Alls. 0.05	14
8.	Number of games lost and drawn	
	= 1 + 3 = 4	
	Number of games won	
	= 16 - 4 = 12	
	Percent of games won 12 3 100 3 100 25	
	$= \frac{12}{16} \frac{3}{4} \times \frac{100}{1} = \frac{3}{4} \times \frac{100}{1} \frac{25}{1}$	1
	= 3 x 25 = 75	
	<u>Ans: 75%</u>	I
<u> </u>		

9.	Cost price – Loss
	= \$125 - \$30 = \$95
	<u>Ans: \$95.00</u>
10.	0.8
	x_ <u>0.3</u>
	0.24
	Ans: 0.24
11.	Length of the side of the square
	$=\sqrt{\text{Area}} = \sqrt{121} = 11 \text{ cm}$
	Perimeter of the square
	= Side x 4 = 11 cm x 4 = 44 cm
	<u>Ans: 44 cm</u>
12.	1 kg = 1 000 g
12.	1 kg = 1 000 g
	1.15 kg x 1 000 = 1 150 g
	<u>Ans: 1 150 g</u>
12	1 hour - COminutos
13.	1 hour = 60 minutes
	Method 1
	$6\frac{1}{2} = \frac{13}{2}$
	$\frac{13}{2-1} \times \frac{60-30}{1} = 13 \times 30 = 390$ minutes
	$\frac{2}{2}$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Method 2
	$\frac{1}{6}$ hours = 6 x 60 = 360 minutes
	$\frac{1}{2}$ hour = 60 ÷ 2 = 30 minutes
	Total time taken in minutes
	= 360 + 30 = 390 minutes
	Ans: 390 minutes
14.	$2\frac{1}{2} = 2.5 \text{ m}$
	1 m = 100 cm
	2.5 m = 2.5 x 100 = 250 cm
	Number of pieces of string $-250 \div 25 = 10$ pieces
	= 250 ÷ 25 = 10 pieces
	Ans: 10 pieces
4-	Amer 5
15.	<u>Ans: 5</u>

E.

16.	Angles A, B, C, D and G are all right angles. Angles E and F are both smaller than a right angle. <u>Ans: 2 angles</u>
17.	A pyramid is named after its base. A square-based pyramid is a pyramid with a square base and four triangular sides. Ans: Square-based pyramid

18.	Number of children who like Curious George = 6 blocks x 3 children = 18 children Number of children who like Dora = 2 blocks x 3 children = 6 children 18 children – 6 children = 12 more children like Curious George <u>Ans: 12 children</u>
19.	Mean = number of books \div number of stacks Mean = $(6 + 2 + 5 + 3) \div 4$ = $16 \div 4 = 4$ <u>Ans: 4 books</u>
20.	The mode or most frequent age is 9. Ans: 9

	SEC	TION 2	
21.	Number of blocks	23.	Vendor A
	$=\frac{1}{4}x\frac{-64}{1}=16$ blocks		1 ochro = 12 ÷ 8 = \$1.50
	64 + 16 = 80 Lego blocks		Vendor B
	Ans: 80 Lego blocks		
			1 ochro = 15 ÷ 12 = \$1.25
22.	2 0 \$6 2 00		Ans:
22.	Discount = $\frac{20}{100} \times \frac{6200}{1}$		Vendor B sold ochroes at a cheaper
	= 20 x 62 = \$1 240		price than Vendor A, therefore
			giving customers a better bargain.
	Price paid after the discount		For this reason, Vendor B sold more
	= \$6 200 - \$1 240 = \$4 960		ochroes than Vendor A.
	<u>Ans: \$4 960.00</u>		

ANSWER GUIDE

24.	Chickens = 25% = $\frac{1}{4} = \frac{2}{8}$			Method 2
	Goats = $\frac{3}{8}$			$\frac{2}{3}$ = 30 containers
	Chickens and goats together			1 20.12 15 20
	$=\frac{2}{8}+\frac{3}{8}=\frac{5}{8}$			$\frac{1}{3}$ = 30 ÷ 2 = 15 cor
	Sheep = $\frac{8}{8} - \frac{5}{8} = \frac{3}{8}$			Total remainder = $\frac{3}{3}$ = 15 x 3 = 45 c
	Number of sheep			Fraction of total re
	$=\frac{3}{-81} \times \frac{1200}{1} \times \frac{150}{1} = 3 \times 150 = 450$			= fraction of conta
	Ans: 450 sheep			first – fraction Nay
25.	Sariah's 30 containers			$=\frac{5}{5}-\frac{2}{5}=\frac{3}{5}=45$
	= the total remainder – Kaire's share			3
	$=\frac{3}{3}-\frac{1}{3}=\frac{2}{3}$			$\frac{3}{5}$ = 45 containers
	Nathad 1			$\frac{1}{5}$ = 45 ÷ 3 = 15 cor
	$\frac{\text{Method 1}}{2} = 20 \text{ containers}$			5 10 10 20 001
	$\frac{2}{3}$ = 30 containers Total remainder			Number of contain
	$= \frac{30}{1} \div \frac{2}{3} = \frac{30}{1} \text{ Is } \text{ X} \frac{3}{2} \text{ I}$			at first
	1 3 1 -2 1 = 15 x 3 = 45 containers			$=\frac{5}{5}$ = 15 x 5 = 75 c
				Ans: 75 containers
	Fraction of total remainder		26.	Total spent
	= fraction of containers Adonaia had first – fraction Nayyara received			= \$35.00 + \$4.50 =
	$=\frac{5}{5}-\frac{2}{5}=\frac{3}{5}=45$ containers			Change reseived
	5 5 5			Change received = \$50.00 - \$39.50
	Number of containers Adonaia had			<u>Ans: \$10.50</u>
	at first 45 3 45 15 5			
	$=\frac{45}{1} \div \frac{3}{5} = \frac{45}{1} \frac{15}{1} \times \frac{5}{3}$		27.	Number of blue pe
	= 15 x 5 = 75 containers			= 75 pencils – 60 re = 15 pencils
L	1	l		
				Decimal of pencils

5 containers ler 45 containers al remainder ontainers Adonaia had Nayyara received = 45 containers ners 5 containers ntainers Adonaia had 75 containers iners .50 = \$39.50 /ed 9.50 = \$10.50 ue pencils 60 red pencils Decimal of pencils that are blue = $\frac{45}{.75} \frac{1}{5} = \frac{2}{.10} = 0.2$ <u>Ans: 0.2</u> 28. Number of weeks needed to save = \$3 600 ÷ \$180 = 20 weeks Ans: 20 weeks

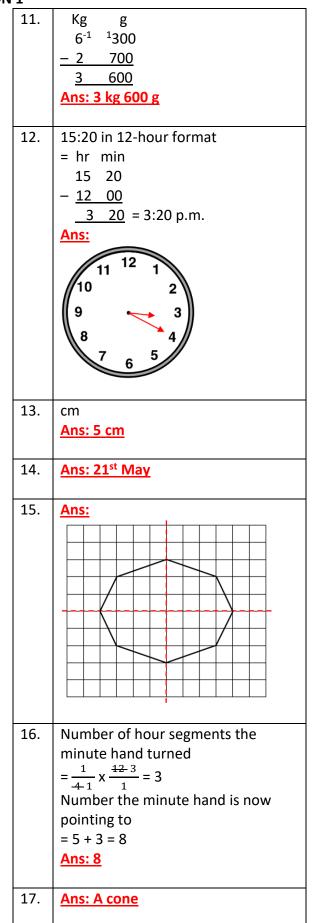
29.	Distance to brother's house $= \frac{1}{3 \ 1} \ x \frac{6600 \ 2200}{1} = 2 \ 200 \ m$ Total distance driven $= 6 \ 600 + 2 \ 200 = 8 \ 800 \ m$ 1 000 m = 1 km 8 800 m ÷ 1 000 = 8.8 km <u>Ans: 8.8 km</u>
30.	$75\% = \frac{75}{100} = \frac{3}{4}$ Number of cars parked for 1 day $= \frac{3}{41} \times \frac{20050}{1} = 3 \times 50 = 150 \text{ cars}$ Money collected on Monday $= 150 \text{ cars } \times \$60 = \$9\ 000$ <u>Ans: \\$9\ 000.00</u>
31.	Time arrived = hr min 8 30 - 05 8 25 a.m. Time spent walking = hr min 8 25 - $8 02$ 0 23 = 23 minutes <u>Ans: 23 minutes</u>
32.	1 L = 1 000 ml 10 L = 10 x 1 000 = 10 000 ml $\frac{3}{4}$ L = $\frac{3}{41}$ x $\frac{1000 \ 250}{1}$ = 3 x 250 = 750 ml Amount Susan made = 10 000 ml + 750 ml = 10 750 ml Number of cups that can be sold = 10 750 ÷ 250 = 43 cups Ans: 43 cups

33.	Ans:	
	Description All sides unequal Two equal sides	Type of triangle Scalene Isosceles
34.	Ans:	
35.	Marks scored for the = 75 + 65 + 80 + 90 = Marks scored for the Marks scored on Frice = 405 - 310 = 95 <u>Ans: 95 marks</u> Marks Scored in Mathematical Marks Mathematical Marks Mathematical Marks Mathematical Marks Mathematical Marks Mathematical Mathematic	310 e week = 405 day
36.	Mean = sum of values \div nu Fernando = $(11 + 14 + 13 + 12 - 2)$ = $60 \div 5 = 12$ minute Lewis = $(13 + 14 + 15)$ = $65 \div 5 = 13$ minute Fernando's average to as it was shorter. <u>Ans: Fernando</u>	mber of values + 10) ÷ 5 s 5 + 12 + 11) ÷ 5 s

	SEC	TION 3	
37.	Number of OJTs $= \frac{4}{100} \times \frac{150}{1} = \frac{4}{10} \times \frac{15}{1} = \frac{60}{10} = 6$ Number of teachers and students = 150 - 6 = 144 persons Number of girls $= \frac{1}{2 - 1} \times \frac{444 - 72}{1} = 72 \text{ girls}$ Number of boys $= \frac{4}{9 - 1} \times \frac{444 - 16}{1} = 4 \times 16 = 64 \text{ boys}$	39.	Ans:
	Number of teachers = Number of teachers and students – Sum of girls and boys = 144 – (72 + 64) = 144 – 136 = 8 <u>Ans: 8 teachers</u>	40.	Sum of runs for Dale = $40 + 36 + 34 + 50 = 160$ Average number of runs = $160 \div 4 = 40$ runs Sum of runs for Jason = $50 + 40 + 70 + 80 = 240$
38.	Brent's regular daily salary = Hourly rate of pay x Number of hours worked in the day = \$80.00 x 8 hours = \$640.00 Brent's regular weekly salary = \$640.00 x 5 days = \$3 200.00 Brent's overtime rate of pay = "time and a half" x Hourly rate of pay = $1 \frac{1}{2} x \frac{80}{1} = \frac{3}{2-1} x \frac{80-40}{1} = 3 x 40$ = \$120.00 Brent's overtime wage for Monday = \$120.00 x 3 hours = \$360.00 Brent's total income for that week = Brent's regular weekly salary + Overtime wage = \$3 200.00 + \$360.00 = \$3 560.00 Ans: \$3 560.00		Average number of runs = 240 ÷ 4 = 60 runs Difference in the average number of runs = Average for Jason – Average for Dale = 60 – 40 = 20 runs <u>Ans: 20 runs</u>

SECTION 1

	SEC	
1.	184	
	- <u>16</u>	
	<u>168</u>	
	<u>Ans: 168</u>	
2.	Total amount of money given away	
	= \$23.00 x 2 = \$46.00	
	Amount of money remaining	
	= \$60.00 - \$46.00 = \$14.00	
	Ans: \$14.00	
3.	0.325 x 100 = 32.5%	
5.	Ans: 32.5%	
	<u>AII3. 32.370</u>	
4.	Method 1	
т.	$1.10 \div 0.05$ ¢ = 22 pieces	
	21.10 - 0.024 - 55 hieres	
	Method 2	
	\$1.00 = 20 5¢ coin pieces	
	10c = 2 5c coin pieces	
	20 + 2 = 22 5¢ coin pieces	
	Ans: 22 5¢ coin pieces	
	7.2	
5.	7.2 x 9 = 64.8	
	<u>Ans: 64.8</u>	
6.	32 ÷ 2 = 16	
0.	$32 \div 2 = 10$ 16 - 2 = 14	
	<u>Ans: 14</u>	
7	10 -2 4	
7.	$\frac{10 \cdot 2}{1} \times \frac{4}{5 \cdot 1} = 2 \times 4 = 8$	
	<u>Ans: 8</u>	
8.	$\frac{21}{7\theta} \times \frac{10\theta}{1} = \frac{24}{7} \times \frac{10}{1} = 3 \times 10 = 30\%$	
	<u>Ans: 30%</u>	
9.	45 ÷ 5 = 9	
۶.		1
	Value of the missing number	
	$= 3 \times 9 = 27$	
	<u>Ans: 27</u>	1
	110 : 7 - 17	
10		
10.	119 ÷ 7 = 17	
10.	<u>Ans: 17</u>	



••• 11

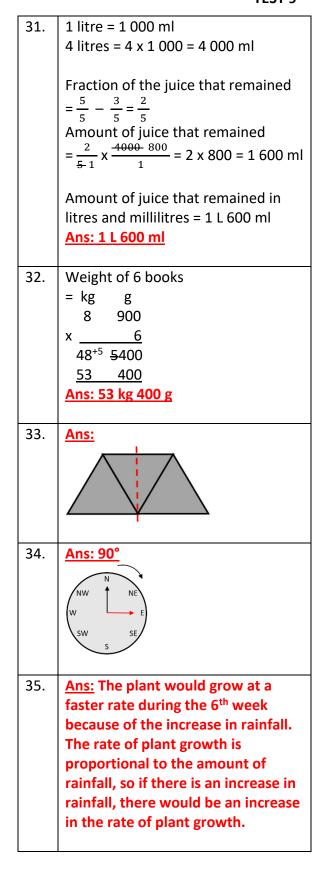
 18. Total Mean x Number of items 5 x 2 = 10 The other number = 10 - 7 = 3 19. Number of points Terrance scored = 45 points Number of points Sandra scored = 30 points 		
= 45 points Number of points Sandra scored	18.	= Mean x Number of items = 5 x 2 = 10 The other number = 10 - 7 = 3
45 – 30 = 15 points Ans: 15 points	19.	 = 45 points Number of points Sandra scored = 30 points 45 - 30 = 15 points

20. Number of blocks
= 4 + 3 + 5 + 7 + 2 = 21 blocks
Number of ice cream cones each block represents
= 63 ÷ 21 = 3 ice cream cones
Ans: 3 ice cream cones

	JLC	2	
21.	Number of stickers Julian had at first = 30 x 12 = 360 stickers	23.	Position Lucy finished in the race = 100 – 42 = 58 th place Number of runners who finished
	Number of stickers Julian has now		before Lucy
	= 360 + 8 = 368 stickers		= 58 – 1 = 57 runners
	Ans: 368 stickers		Ans: 57 runners
22.	$\frac{\text{Method 1}}{\frac{2}{5}} = 600.00	24.	3 halves = $\frac{3}{1} \times \frac{1}{2} = \frac{3}{2} = 1 \frac{1}{2}$
			Miss Betty's remainder
	$\frac{1}{5}$ = \$600.00 ÷ 2 = \$300.00		$= 4 \frac{1}{2} - 1 \frac{1}{2} = 3$
	Total salary		12 quarters = $\frac{12 \cdot 3}{1} \times \frac{1}{4 \cdot 1} = 3$
	$=\frac{5}{5}=$ \$300.00 x 5 = \$1 500.00		Ans: Yes, this is correct as the
	2 2 . 1500 500		remaining 3 whole oranges is equivalent to 12 quarter oranges.
	$\frac{\frac{2}{3}}{\frac{2}{3} - \frac{2}{3}} \times \frac{\frac{1500}{500}}{1}$ = 2 x 500 = \$1 000.00		
		25.	<u>Method 1</u>
	Method 2		Number of seats in economy
	Total salary		= 180 x 0.8 = 144 seats
	$=\frac{600}{1} \div \frac{2}{5} = \frac{600 \cdot 300}{1} \div \frac{5}{2 \cdot 1} = 300 \times 5$		Number of seats in first class
	$= \frac{1}{1} \div \frac{1}{5} = \frac{1}{1} \div \frac{1}{2 \cdot 1} = 300 \times 5$ = \$1 500.00		= 180 – 144 = 36 seats
	2 2 4500 500		Method 2
	$\frac{2}{3} = \frac{2}{21} \times \frac{1500}{1}$		Number of seats in first class
	$= 2 \times 500 = 1000.00		= 1.0 - 0.8 = 0.2
	<u>Ans: \$1 000.00</u>		= 180 x 0.2 = 36 seats
			Ans: 36 seats

SEA Mathematics Practice Tests

26. 27.	Prime numbers between 20 and 40 = 23, 29, 31 and 37 23 + 29 + 31 + 37 = 120 Ans: 120 4 368 ÷ 78 = 56					
	Israel's ans Ans: 60					
28.	$80\% = \frac{80}{100}$ when reduced by $20 = \frac{4}{5}$ $33\frac{1}{3}\% = 0.33$ $0.875 \times 100 = 87.5\%$ <u>Ans:</u>					
	Fraction	Decimal	Percentage			
	5	0.8	80%			
	<u>1</u> <u>3</u>	0.33	$33\frac{1}{3}\%$			
	7 8	0.875	87.5%			
29.	Length of time the movie lasted = hr min 5^{-1} 10 ⁺⁶⁰ 4 70 - <u>3 50</u> <u>1 20</u> = 1 hour 20 minutes 1 hour = 60 minutes 60 + 20 = 80 minutes 1 minute = 60 seconds 80 minutes = 80 x 60 = 4800 seconds Ans: 4 800 seconds					
30.	Perimeter of the bedroom = $\$900.00 \div \$30.00 = 30 \text{ m}$ Length of the bedroom = (Perimeter $\div 2$) – Width = $(30 \text{ m} \div 2) - 6 \text{ m}$ = $15 \text{ m} - 6 \text{ m} = 9 \text{ m}$ Ans: 9 m					



36.	Number of spoons		
	= 6 x 2 = 12 spoons		
	Total number of utensils		
	= 12 + 8 + 6 = 26 utensils		
	Ans: 26 utensils		
	Utensils Tally		
	Spoons IIII III		
	Knives III		
	Forks JHt I		

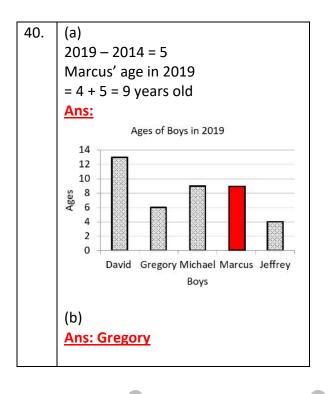
	50	Ľ	TION	5
37.	Number of adults			3
	$= = \frac{350 \cdot 70}{1} \times \frac{1}{5 \cdot 1} = 70 \text{ adults}$			
	Number of boys and girls			
	= 350 – 70 = 280 boys and girls			
	X = Number of boys			
	X3 = Number of girls			
	X + X3 = 4X			
	Number of boys			
	= 280 ÷ 4 = 70 boys			
	Number of women			
	= 70 boys ÷ 2 = 35 women			
	Number of men			
	= 70 adults – 35 women = 35 men			3
	Percent of adults that were men			
	$= = \frac{\frac{35}{70}}{\frac{70}{2}} \times \frac{100}{1} = 100 \div 2 = 50\%$			
	<u>Ans: 50%</u>			

SECTION 3

12			
38.	Perimeter of the living room = (Length + Width) x 2 = (6 m + 4 m) x 2 = 10 m x 2 = 20 m		
	1 m = 100 cm Perimeter of the living room in cm = 20 m x 100 = 2 000 cm		
	Number of bricks in 1 row of bricks = 2 000 cm ÷ 40 cm = 50 bricks		
	Number of bricks used in total = 15 rows x 50 bricks = 750 bricks <u>Ans: 750 bricks</u>		
39.	(a) <u>Ans: An isosceles triangle or right- angled triangle</u> (b) <u>Ans:</u>		

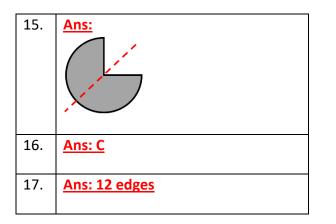
ANSWER GUIDE

SEA Mathematics Practice Tests



1.	6 475 - <u>1 324</u> <u>5 151</u> <u>Ans: 5 151</u>
2.	$(5 \times 2) + 1 = 10 + 1 = 11$ <u>Ans:</u> $\frac{11}{2}$
3.	<u>Ans: 6 412</u>
4.	This pattern consists of descending square numbers: $144 = 12^2$ $121 = 11^2$ $100 = 10^2$ $81 = 9^2$ $64 = 8^2$ <u>Ans: 64</u>
5.	1 cake = $\frac{5}{5}$ 3 cakes = 3 x $\frac{5}{5}$ = $\frac{15}{5}$ or 15 slices 15 - 8 = 7 slices or $\frac{7}{5}$ = $1\frac{2}{5}$ Ans: $1\frac{2}{5}$
6.	ThousandsHundredsTensOnes6519The hundreds digit is equal to or more than 5 so the thousands digit increases by 1.Ans: 7 000
7.	0.05 x 100 = 5% <u>Ans: 5%</u>
8.	Number incorrect = $80 - 56 = 24$ Fraction incorrect = $\frac{243}{8010} = \frac{3}{10}$ Ans: $\frac{3}{10}$

SECTION 1		
	9.	$2 \times \$10.00 = \20.00 $1 \times \$50.00 = \50.00 $3 \times \$5.00 = \frac{\$15.00}{\$85.00}$ <u>Ans: \$85.00</u>
	10.	$8^{2} - \sqrt{144}$ 64 - 12 = 52 <u>Ans: 52</u>
ng	11.	84 m ÷ 2.4 m = 35 rulers <u>Ans: 35 rulers</u>
	12.	Sides $AB + CD$ = 6 cm + 12 cm = 18 cm Side $AC = BD$ Sides $AC + BD$ = Perimeter - 18 cm = 36 cm - 18 cm = 18 cm $BD = 18$ cm $\div 2 = 9$ cm <u>Ans: 9 cm</u>
git	13.	<u>Method 1</u> 11:10 to 12:10 = 1 hour 12:10 to 1:10 = 1 hour Total time taken = 2 hours <u>Method 2</u> 1:10 in 24-hour format = 1:10 + 12:00 = 13:10
		Total time taken = hr min 13 10 $- \frac{11 10}{2 00} = 2$ hours <u>Ans: 2 hours</u>
	14.	1 000 grams = 1 kilogram kg g 4 786 + 2 263 6^{+1} ± 049 7 049 Ans: 7 kg 49 g



18.	Number of students who like coconut ice cream		
	= 20 – (3 + 8 + 3)		
	= 20 – 14 = 6 studer	nts	
	<u>Ans:</u>		
	lce-cream	Number of	
	Flavours	Students	
	Chocolate	III	
	Cookies & Cream	₩f III	
	Coconut	1#r I	
	Strawberry	III	
19.	25 + 15 = 40		
	Mean = 40 ÷ 2 = 20		
	40 – 13 = 27		
	<u>Ans: 27</u>		
20.	<u>Ans: Set B</u>		

SECTION 2

21. Values can be converted to either decimal fractions, common fractions or percentages for comparison. $0.25 = 25\% = \frac{1}{4}$ $\frac{1}{5} = 0.20 = 20\%$ $45\% = 0.45 = \frac{9}{20}$ <u>Ans:</u> 45%, 0.25, $\frac{1}{5}$ 22. $\frac{\text{Method 1}}{\frac{3}{8} = 240}$ $\frac{1}{8} = 240 \div 3 = 80$ $\frac{8}{8} = 80 \times 8 = 640$ $\frac{1}{4 \cdot 1} \times \frac{640 \cdot 160}{1} = 160$ $\frac{\text{Method 2}}{240 \div \frac{3}{8} = \frac{240 \cdot 80}{1} \times \frac{8}{3 \cdot 1} = 80 \times 8 = 640$ $\frac{1}{4 \cdot 1} \times \frac{640 \cdot 160}{1} = 160$ $\frac{1}{4 \cdot 1} \times \frac{640 \cdot 160}{1} = 160$

23.	Number planted on Tuesday	28.	Amount saved daily
	= 40 x 4 = 160 plants planted		$=\frac{1}{51} \times \frac{150\ 30}{1} = $ \$30
	Total number planted		5 1 1
	= 40 + 160 = 200		5 days x 4 weeks = 20 days
			Amount saved in 4 weeks
	Percentage of the total number		= 20 days x \$30 = \$600
	planted = $\frac{160}{200} \times \frac{100}{1} = \frac{160}{2} \times \frac{100}{1} = 80\%$		<u>Ans: \$600.00</u>
	Ans: 80%		Alls. \$000.00
	<u>Ans. 6076</u>	29.	Number of complete squares in
24.	150 seashells used as a common	29.	shape = 15
24.	dividend.		•
	$an = 150 \div 5 = 30$ seashells		Number of half squares in shape = 6
			6 halves = 3 whole squares
	Jason = 150 ÷ 3 = 50 seashells		Total number of squares in shape
	Ans: Jason will get the greater		= 15 + 3 = 18
	number. He divided the number of		Area of each annual
	seashells using a smaller number		Area of each square
	(divisor) than lan and will always		$= 2 \text{ cm x } 2 \text{ cm} = 4 \text{ cm}^2$
	get a larger answer (quotient) no		Aver af share
	matter how many seashells there		Area of shape
	are.		= Number of squares x Area of each
25	20 500		square
25.	$\frac{20}{100} \times \frac{500}{1} = 20 \times 5 = 100 discount		$= 18 \times 4 \text{ cm}^2 = 72 \text{ cm}^2$
			<u>Ans: 72 cm²</u>
	Price of shoes after discount	20	
	= \$500 - \$100 = \$400	30.	Amount spent
	<u>Ans: \$400.00</u>		= \$400 + \$240 = \$640
			Money remaining
26.	Number of boxes		= \$1 000 - \$640 = \$360
	= 75 ÷ 5= 15 boxes		
	15 boxes x \$20 = \$300		Number of shirts that can be bought
	<u>Ans: \$300.00</u>		= 360 ÷ 120 = 3 shirts
			Ans: 3 shirts
27.	$0.20 = \frac{2}{10} \frac{1}{5} = \frac{1}{5}$	24	
	-10 5 5	31.	Time instructor left the pool
	1 1 200 240 240		= hr min
	$\frac{1}{5} \frac{1}{1} \times \frac{1200}{1} = 240$ more seats		9 55
			$-\frac{05}{0.50}$
	Number of seats available for the		<u>9 50</u>
	football match		
	= 1 200 + 240 = 1 440		Time spent in the pool
	Ans: 1 440 seats		= hr min
			9 50
			- <u>9 15</u>

<u>0 35</u> = 35 minutes

Ans: 35 minutes

32.	Total weight of the pumpkins	
	= kg g	
	2 400	
	$x \underline{3}_{6^{+1}} \underline{4200}$	
	7 200	
	Total weight of the potatoes	
	= kg g	
	<u>9-1 1000</u>	
	8 1000	
	- <u>7 200</u>	
	<u>1 800</u>	
	1 1 2 1000 -	
	1 kg = 1000 g	
	Total weight of the potatoes in	
	grams = 1 800 grams	
	Weight of each potato	
	= 1 800 grams ÷ 2 = 900 grams	
	<u>Ans: 900 g</u>	
33.	Ans: Shape B	
34.	Ans: Cuboid, Cylinder, Cone (choose any 2)	

35.	The new tax would mean the cost per car will increase. Sales would decrease when the new tax is introduced. <u>Ans: The new tax was charged in</u> <u>April as the sales decreased. The</u> <u>number of cars sold in July would</u> <u>be less than 50.</u>
36.	Week 5 to 4 = 15 cm - 11 cm = 4 cm Week 4 to 3 = 11 cm - 8 cm = 3 cm Week 3 to 2 = 8 cm - 6 cm = 2 cm Week 2 to 1 = 6 cm - 5 cm = 1 cm Ans: The plant adds an extra cm of growth each week. Growth of Red Bean Plant 10^{4}

	520	TION 3	
37.	16 posts = 15 spaces 3 rolls of chain-link x 20 m = 60 m Length of wire between each post	39.	A square, rectangle, or rhombus can be used once length does not exceed 6 cm.
	Length of wire between each post = $60 \div 15 = 4$ metres Spaces between 2 nd and 6 th posts = $6 - 2 = 4$ spaces Length of wire used between 2 nd and 6 th posts = 4 spaces x 4 m = 16 m <u>Ans: 16 m</u>		Ans:
38.	37. 1 kg = 1 000 g Weight of the bag of dog food in grams = 33.6 x 1 000 = 33 600 g Amount of food Rashma fed her dog each day = 400 g x 2 meals = 800 g Number of days it takes to finish one bag of dog food = 33 600 g ÷ 800 g = 42 days Number of weeks it takes to finish one bag of dog food = 42 ÷ 7 days = 6 weeks <u>Ans: 6 weeks</u>	40.	(choose any 1) Pattern increases by \$1.00 daily. Monday = \$3 Tuesday = \$3 + \$3 = \$6 Wednesday = \$6 + \$4 = \$10 Thursday = \$10 + \$5 = \$15 Friday = \$15 + \$6 = \$21 <u>Ans:</u> Money Saved Friday Tuesday Tuesday 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 Money (s)

_____ • _

_____ • _

1.

 Thousands
 Hundreds
 Tens
 Ones
 1

 6
 0
 2
 3
 3

 Ans: 6 023
 Image: Control of the second se

	6 0 2 3			
	<u>Ans: 6 023</u>			
2.	OnesTenthsHundredths3.79The hundredths digit is equal to or more than 5 so the tenths digit increases by 1.Ans: 3.8			
3.	$(15 \times 3) + 4 = 45 + 4 = 49$ $\frac{49}{15}$ <u>Ans:</u> $\frac{49}{15}$			
4.	Sum of the coins shown = $10c + 10c + 5c + 5c + 1c + 25c$ = $56c$ Sum of the missing coins = $71c - 56c = 15c$ 15c = 10c + 5c Values of the missing coins = $5c$ and $10c$ <u>Ans: 5c and 10c</u>			
5.	$\frac{\frac{80}{100}}{\frac{100}{100}} \times \frac{\frac{200}{1}}{\frac{1}{100}} = 80 \times 2 = 160$ <u>Ans: 160</u>			
6.	\$2 400.00 - \$1 900.00 = \$500.00 Ans: \$500.00			
7.	$\frac{\frac{2}{5}}{\frac{4}{10}} = 0.4$ <u>Ans: 0.4</u>			
8.	1.75 ÷ 7 = 0.25 Ans: 0.25			
9.	Number of tops = 8 x 13 = 104 tops Number of tops remaining = 104 – 30 = 74 tops <u>Ans: 74 spinning tops</u>			

10.	$9^{2} = 9 \times 9 = 81$ $2^{3} = 2 \times 2 \times 2 = 8$ 81 + 8 = 89 <u>Ans: 89</u>
11.	Length of the movie = hr min 10^{-1} 15^{+60} 9 75 - <u>8 52</u> <u>1 23</u> <u>Ans: 1 hour and 23 minutes</u>
12.	1 m = 100 cm Length of the table = 3.4 m x 100 = 340 cm <u>Ans: 340 cm</u>
13.	Number of cubes in object = L x W x H = 3 x 3 x 2 = 18 cubes Volume of object = 18 cubes x 8 cm ³ = 144 cm ³ <u>Ans: 144 cm³</u>
14.	g mg 5 350 x 6 30+2 2100 32 100 = 32 g 100 mg Ans: 32 g 100 mg
15.	Ans:
16.	Ans: Two 90° angles
17.	Ans: 2 pairs of equal sides

••• 21 18. Total number of goals scored
= 2 + 4 + 5 + 1 + 3 + 3 = 18 goals
Mean = Total number of goals
scored ÷ Number of games
= 18 ÷ 6 = 3 goals
Ans: 3 goals

	JLC	-	
21.	Weekly wage	24.	Numbers between 40 and 60 are 42,
	= \$9 600.00 ÷ 4 months = \$2 400.00		47 and 53.
	Hourly rate of pay		The prime numbers are 47 and 53.
	= \$2 400.00 ÷ 40 = \$60.00 per hour		Half of 98 = 98 ÷ 2 = 49
	Ans: \$60.00 per hour		47 < 49
			<u>Ans: 47</u>
22.	Fraction of the cloth used to make		
	shirts and pants = $\frac{2}{5} + \frac{1}{4}$	25.	Number of beads in each pattern
	LCM of 4, 5 = 20		= 7 + 5 = 12 beads
	$\frac{2}{5} = \frac{8}{20}$ $\frac{1}{4} = \frac{5}{20}$		Number of patterns of beads
	$\frac{1}{5} - \frac{1}{20}$ $\frac{1}{4} - \frac{1}{20}$		= 60 ÷ 12 = 5 patterns of beads
	8 5 13		Number of red beads
	$\frac{8}{20} + \frac{5}{20} = \frac{13}{20}$		= 5 x 5 = 25 red beads
			Ans: 25 red beads
	Fraction of the cloth remaining		
	$=\frac{20}{20}-\frac{13}{20}=\frac{7}{20}$	26.	Number of markers Yasmin has
	20 20 20		= 24 ÷ 2 = 12 markers
	Length of cloth remaining		Number of markers Lisa has
			= 12 + 4 = 16 markers
	$=\frac{7}{-20-1} \times \frac{-60-3}{1} = 7 \times 3 = 21 \text{ m}$		Number of markers they have
	<u>Ans: 21 m</u>		altogether
			= 24 + 12 + 16 = 52 markers
23.	Number of marks Ryan scored		Ans: 52 markers
	$=\frac{65-13}{100-20} \times \frac{80}{1} = =\frac{13}{20-1} \times \frac{80-4}{1}$		
	$13 \times 4 = 52 \text{ marks}$	27.	$\frac{2}{5-1} \times \frac{100-20}{1} = 2 \times 20 = 40\%$
			5^{-1} 1 0.03 x 100 = 3%
	Number of marks Luke scored		40% + 3% + 25% = 68%
	= 52 + 12 = 64 marks		$68\% = \frac{68}{100}$ when reduced by $4 = \frac{17}{25}$
	Percent of the marks Luke scored		<u>Ans:</u> $\frac{17}{25}$
			25
	$=\frac{64}{80} \times \frac{100}{1} = 640 \div 8 = 80\%$	28.	$\sqrt{144} = 12$
	<u>Ans: 80%</u>	20.	$\sqrt{144} = 12$ 1 512 ÷ 12 = 126
			<u>Ans: 126</u>

SEA Mathematics Practice Tests

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29.	Length of one side of the big square = $\sqrt{\text{Area}} = \sqrt{100} = 10 \text{ cm}$ Length of one side of the small square = 10 cm ÷ 2 = 5 cm Perimeter of each of the smaller squares = Side x 4 = 5 cm x 4 = 20 cm <u>Ans: 20 cm</u>	32.	Weight = kg g 7 20 + <u>2 25</u> <u>9 45</u> Combine = kg g 7 20 + <u>9 45</u> <u>16 65</u>
30.	30 days in the month 4 Sundays + 4 Saturdays + 1 weekday holiday = 9 Days Justin works = 30 – 9 = 21 days <u>Ans: 21 days</u>	33.	Ans: 16 Ans: 16
31.	Total length of time the concert lasted = hr min 11 55		Square- based pyramid
	$-\frac{8 \ 05}{3 \ 50} = 3 \text{ hours 50 minutes}$ $1\frac{3}{4} \text{ hours = 1 hr 45 mins}$	34.	Ans: The the inne it is cut circular
	Total length of time the 2 halves of the concert lasted = hr min 1 45 x $\frac{2}{2^{+1} 90^{-60}}$ $\frac{3 30}{3}$ 3 hours 30 mins	35.	Number = Sum o Number = 680 ÷ Number = 644 ÷ <u>Ans: Ob</u>
	Total length of time the intermission lasted = hr min 3 50 - <u>3 30</u> <u>20</u> <u>Ans: 20 minutes</u>	36.	Total nu losses = Total nu draws = Total nu wins = 9

of Book B g 00 <u>50</u> <u>50</u> ned weight of books g 00 <u>50</u> 50 kg 650 g Number Number Number of Faces of Edges of Vertices <u>5</u> <u>8</u> <u>5</u> ne cross-section of a solid is er surface of the solid when in half. A cylinder has a cross section. r of values of values ÷ Mean r of subjects Makena wrote 85 = 8 subjects r of subjects Obasi wrote 92 = 7 subjects <u>basi</u> umber of points gained from $= 3 \times 0 = 0$ points umber of points gained from = 6 x 1 = 6 points umber of points gained from 9 x 3 = 27 points Total number of points the team earned = 0 + 6 + 27 = 33 points Ans: 33 points

SECTION 3

37.	Total number of figs
57.	Total number of figs
	= 18 x 4 = 72 figs
	Number of figs sold
	= 40 + 12 = 52 figs
	= 40 + 12 = 32 ligs
	Number of figs remaining
	= 72 – 52 = 20 figs
	Fraction of the figs remaining
	$=\frac{20}{72}$ when reduced by $4 = \frac{5}{18}$
	$\frac{Ans:}{18}$
	Alls. 18
38.	1 m = 100 cm
	Length of 1 sheet of bristol board
	= 100 m x 3 = 300 cm
	Width of 1 sheet of bristol board in
	= 100 m x 2 = 200 cm
	Number of invitations Avion can get
	from 1 sheet of bristol board
	_ Area of the sheet of bristol board
	= Area of a wedding invitation
	Length x width $\frac{300}{6}$ s $\frac{200}{5}$
	$=\frac{\text{Length x width}}{\text{Length x width}}=\frac{300-6 \times 200-5}{50-1 \times 40-1}$
	$= 6 \times 5 = 30$ wedding invitations
	Number of sheets of bristol board
	required to make all the invitations
	= 360 ÷ 30 = 12 sheets of bristol
	board
	Ans: 12 sheets of bristol board

39.	(a) <u>Ans: 1 pair</u> (b) <u>Ans: Angles P, Q and R</u> (c) <u>Ans: Angles R and S</u>
40.	Total of the 1 st set of numbers = 18 + 24 = 42 Mean of the 1 st set of numbers = 42 \div 2 = 21 Total of the 2 nd set of numbers = Mean x Number of numbers = 21 x 3 = 63 Value of the missing number = 63 - (19 + 32) = 63 - 51 = 12 <u>Ans: 12</u>

____• -___• -

							SEC
1.	Mill	Hund	Ten	Thou	Hund	Tens	Ones
		Thou	Thou	0			
	1 Ans:	6 1 600	0	0	0	2	9
	<u>AII3.</u>	1000	025				
2.		_					
	Tens	Ones	T		Hundred	ths	
		0 dredtł		4	5		noro
		5 so t	-		•		
	by 1.				0		
	Ans:	<u>10.5</u>					
2	Math						
3.	$\frac{1}{6} = 2$	<u>10d 1</u>					
	6	+0					
	6	40 x 6	5 = 24	n			
	6	40 / 0	, - 24	0			
	Meth	<u>10d 2</u>					
	40 ÷	$\frac{1}{6} = \frac{4}{3}$	0 x <u>6</u>	= 240	D		
	Ans:		1 1				
4.	$\frac{5}{20}$ 4	$=\frac{1}{4}$					
	Ans:	$\frac{1}{4}$					
5.	Ones		enths	Hundred	1ths		
	01105		2	2			
	2		2	0			
	2		1	0			
	0		2	1			
	Ans:	2.2					
6.	250/	_ 1					
0.	25%	-	C+:.	.:			
		ber o			comp	leted	
		$\frac{1}{1} \times \frac{320}{1}$					
	Ans:	<u>80 ac</u>	CIVITIE	<u>25</u>			
7.		8 = 4	rema	inder	3		
	$\frac{\frac{35}{8}}{\frac{\text{Ans:}}{3}} =$	4 3					
	<u></u>	8					

1	
8.	Fraction of goals scored = $\frac{2}{6} = \frac{1}{3}$ Ans: $\frac{1}{3}$
9.	Price after discount = \$5 000 – \$499 = \$4 501 <u>Ans: \$4 501.00</u>
10.	3 652 - <u>3 089</u> <u>563</u> <u>Ans: 6</u>
11.	Perimeter of the door = (Length + Width) x 2 = (6 m + 3 m) x 2 = 9 m x 2 = 18 m <u>Ans: 18 m</u>
12.	Length of one side = $\sqrt{\text{Area}} = \sqrt{144} \text{ cm}^2 = 12 \text{ cm}$ Length of 4 sides = 12 cm x 4 = 48 cm <u>Ans: 48 cm</u>
13.	60 minutes = 1 hour 120 minutes = 120 ÷ 60 = 2 hours <u>Ans: 2 hours</u>
14.	Students drank: $100\% - 10\% = 90\%$ $\frac{90}{100} \times \frac{5}{1} = \frac{9}{-10 2} \times \frac{5 \cdot 1}{1}$ $= \frac{9}{2} = 4 \frac{1}{2}$ litres = 4.5 litres 1 litre = 1 000 millilitres Students drank 4.5 litres $= 4.5 L \times 1000 = 4500$ ml <u>Ans: 4 500 ml</u>

E.

15.	Ans:
	X
10	<u>ү</u>
16.	Four $\frac{1}{4}$ turns = 1 whole turn.
	The hour hand returns to the same
	position, 6.
	<u>Ans: 6</u>
17.	Ans: Cone

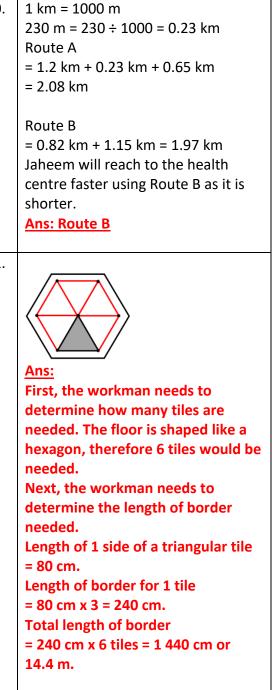
18.	Total number of fish caught = (6 + 7 + 4) x 3 = 17 x 3 = 51 fish <u>Ans: 51 fish</u>
19.	Mean = sum of items ÷ number of items = (152 + 75 + 102 + 99) ÷ 4 = 428 ÷ 4 = 107 <u>Ans: 107</u>
20.	The mode or most frequent number is 13. <u>Ans: 13</u>

SECTION 2

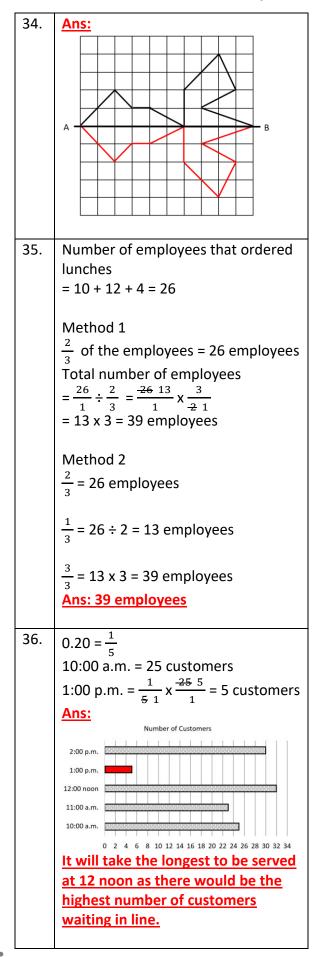
	SECTI		Z
21.	Add whole numbers. 4 + 2 = 6		24
	Add fractions. $\frac{1}{4} = \frac{2}{8}$ $\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$		
	Add whole numbers and fractions. $6 + \frac{5}{8} = 6\frac{5}{8}$		
	<u>Ans:</u> $6\frac{5}{8}$		
22.	Number of songs Vivek has = 437 – 39 = 398 songs		
	Number of songs altogether		
	= 437 + 398 = 835 songs		25
	Ans: 835 songs		
23.	Total number of paintings needed = 36 – 12 = 24		
	Percent of paintings needed = $\frac{24}{36} \frac{2}{3} \times \frac{100}{1} = \frac{200}{3} = 66 \frac{2}{3} \%$		
	$\frac{36}{\text{Ans:}} \frac{3}{66} \frac{2}{3} \frac{1}{3} \frac{3}{3} \frac{1}{3} \frac{3}{3} \frac{3}$	L	

12	
24.	Number of sacks of cement needed for 6 houses = 1 341 x 6 = 8 046 sacks of cement Number of pallets needed = 8046 ÷ 50 = 160 rem 46 <u>Ans: 161 pallets of cement.</u> <u>The builder can only buy the</u> <u>cement in pallets of 50 sacks, not</u> <u>single sacks. A full pallet therefore</u> <u>needs to be bought to complete the</u> <u>job, although there would be sacks</u> <u>remaining.</u>
25.	Cars that are not red = $125 - 45 = 80$ cars Percent of toy cars that are not red = $\frac{80}{425 - 5} \times \frac{100 - 4}{1} = \frac{80 - 16}{-5 - 1} \times \frac{4}{1}$ = $16 \times 4 = 64\%$ <u>Ans: 64%</u>

26.	Number of 2-seater chairs = 13 Number of seats = $13 \times 2 = 26$ Number of remaining seats = $32 - 26 = 6$ seats Number of 3-seater chairs = $6 \div 3 = 2$ 3-seater chairs Ans: 2 3-seater chairs				30.
27.	$40\% = \frac{40}{100} = 40 \div 100 = 0.40 \text{ or } 0.4$ $15\% = \frac{15}{100} = \frac{3}{20}$				
	$\frac{1}{8-2} \times \frac{100-25}{1}$	$=\frac{25}{2}=12$	¹ / ₂ % or 12.5%		31.
	Ans:				
	Fraction	Decimal	Percentage		
	2	0.4	40%		
	5 3				
	20	0.15	15%		
	<u>1</u> 8	0.125	12 - 12 - 12 % or		
	0		12.5%		
28.	Loss = $\frac{12}{100-4} \times \frac{4}{5}$ = 3 x 25 = \$ Selling pric = \$625 - \$ Ans: \$550.	\$75 e of watch 75 = \$550			
29.	Weight of				
	= 600 g x 3	grapefruit	ts = 1 800 g		
	1 000 g = 1 1 800 g = 1				
	Weight of watermelons = 8 kg – 1.8 kg = 6.2 kg Weight of 1 watermelon = 6.2 kg ÷ 2 watermelons = 3.1 kg				
	3.1 kg rour = 3 kg <u>Ans: 3 kg</u>	nded off to	nearest kg		



32.	Length of the container
	= 2 cm x 4 = 8 cm
	Width of the container
	= 2 cm x 3 = 6 cm
	Height of the container
	-
	= 2 cm x 5 = 10 cm
	Number of cubes the container can
	hold when full
	= Volume of container
	Volume of cube
	Longth y Width y Height
	$= \frac{\text{Length x Width x Height}}{\text{Side x Side Side}}$
	Side x Side Side
	_ 8 cm x 6 cm x 10 cm
	$= \frac{1}{2 \operatorname{cm} x 2 \operatorname{cm} x 2 \operatorname{cm}}$
	= 4 x 3 x 5 = 60 cubes
	Number of cubes currently in the
	container
	Base = 4 cubes x 3 = 12
	Height = 4 cubes x 4 = 16
	0
	Total = 12 + 16 = 28 cubes
	Number of cubes required to fill the
	rest of the container
	= 60 – 28 = 32 cubes
	Ans: 32 cubes
33.	Pattern: Number of sides increase
	by 1.
	Ans:
	3 sides 4 sides 5 sides 6 sides 7 sides
	(any 4-sided (any 6-sided
	shape) shape)



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37.	Cost of 9 pencils	39.	A
	= \$2.00 x 9 = \$18.00		
	Money spent excluding 9 pencils		
	= \$258.00 - \$18.00 = \$240.00		
	Cost of 1 pen and 1 pencil		
	= \$6.00 + \$2.00 = \$8.00		
			╎└
	Number of pens and pencils bought		
	= \$240 ÷ \$8 = 30 each	40.	(;
			N
	Number of pencils bought		h
	= 30 + 9 = 39 pencils		N
	Ans: 39 pencils		g
			N
38.	Length of side X		h
	= 40 m ÷ 2 = 20 m		A
	Total length farmer fenced		ΙΓ
	= 40 m + 40 m + 20 m = 100 m		
	1 post is used at the beginning.		
	21 posts – 1 post = 20 spaces		ΙL
	Distance hat we are such as all		(
	Distance between each post		
	= $100 \text{ m} \div 20 \text{ spaces} = 5 \text{ m}$		<u> </u>
	Distance between every 2 posts		1
	= 5 m x 2 = 10 m		
	<u>Ans: 10 m</u>		

39.	Ans:						
	Solid		Propert	Properties			
	Triang	ular	4 triang	angular s, 6 edges rtex			
	based	pyramid	faces, 6				
	Cone		1 vertex				
	Triang Prism	ular	9 edges	edges			
	Cylind	er	2 edges	s			
10.	(a)						
τΟ.	Number of points scored in the red						
	hoop = 4 x 2 = 8 points Number of balls thrown through th						
	green hoop = $33 \div 3 = 11$ Number of points scored in the b						
	hoop = 5 x 4 = 20 points Ans:						
	Colour Hoop	Points Awarded	Tally	Points Scored			
	Red	2		<u>8</u>			
	Green	3	1111 1111 I	33			
	Blue	4	₩	<u>20</u>			
	(b) <u>Ans: Th</u> e	e green h	<u>oop</u>				

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