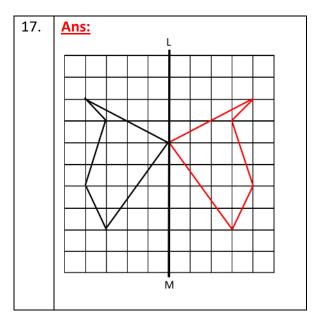
	SEC	TION 1	L
1.	<u>Ans: 15 307</u>		1
2.	Selling price = 25 hairbrushes x \$9.00 = \$225.00 Profit = Selling Price – Cost Price = \$225.00 – \$175.00 = \$50.00 <u>Ans: \$50.00</u>		
3.	$\frac{\frac{64\cdot8}{80\cdot10} \times \frac{100}{1}}{\frac{1}{10}} = \frac{8}{10} \times \frac{100}{1} = 8 \times 10 = 80\%$ <u>Ans: 80%</u>		
4.	Total cost of the items = \$11.30 + \$12.85 = \$24.15 15¢ is < 50¢, so \$24.15 rounded off to the nearest dollar = \$24.00 <u>Ans: \$24.00</u>		1
5.	$(7 \times 8) + 2 = 56 + 2 = 58$ $8 \frac{2}{7} = \frac{58}{7}$ <u>Ans:</u> $\frac{58}{7}$		1
6.	40¢ - 25¢ = 15¢ 15¢ - 10¢ = 5¢ 25¢ + 10¢ + 5¢ = 40¢ Ans: 25¢, 10¢, 5¢ coin pieces		
7.	Number of chocolate cupcakes = (8 x 2) + 6 = 16 + 6 = 22 chocolate cupcakes Ans: 22 chocolate cupcakes		1
8.	Percent of hair ties Cintra kept = 100% - 60% = 40% $40\% = \frac{40}{100} = 0.4$ <u>Ans: 0.4</u>		1
9.	$3 x \frac{2}{9} = \frac{3 \cdot 1}{1} x \frac{2}{9 \cdot 3} = \frac{2}{3}$		1
	$\underline{\text{Ans:}}^{2}_{3}$		1

Ν	1	
	10.	$2 \times 10\ 000 = 20\ 000$ $6 \times 1\ 000 = 6\ 000$ $4 \times 10 = 40$ $5 \times 1 = 5$ $20\ 000$ $6\ 000$ 40 $+ \underline{5}$ $\underline{26\ 045}$ <u>Ans: 26\ 045</u>
	11.	Average weight of 1 lamp in kg = 42 kg $\div$ 6 = 7 kg 1 kg = 1 000 grams Weight of 1 lamp in grams = 7 kg x 1 000 = 7 000 g Ans: 7 000 g
	12.	Ans: 11 $12$ $110$ $29$ $38$ $47$ $6$ $5$
	13.	1 hour = 60 minutes 3 hours = 3 x 60 = 180 minutes $\frac{90}{100}$ x $\frac{180}{1}$ = 9 x 18 = 162 minutes Ans: 162 minutes
	14.	Area = Side x Side = 12 cm x 12 cm = 144 cm <sup>2</sup> Ans: 144 cm <sup>2</sup>
	15.	Angle R is < 90° = acute angle Ans: An acute angle
	16.	Ans: Lines CD and GH



18.	Total = Mean x number of numbers = 26 x 8 = 208 <u>Ans: 208</u>
19.	YouTube = 14 Kindle = 9 14 – 9 = 5 students <u>Ans: 5 students</u>
20.	Total number of curtain panels sold during the week = (8 + 5 + 6 + 4 + 7) x 10 = 30 x 10 = 300 curtain panels <u>Ans: 300 curtain panels</u>

		_	
21.	Number of eggs needed for 1 cake	24.	Cost of the split peas
	= 6 eggs ÷ 2 cakes = 3 eggs		= \$8.75 x 3 = \$26.25
	Number of cakes		Cost of the flour
	= 24 eggs ÷ 3 = 8 cakes		= \$5.75 x 2 kg = \$11.50
	Ans: 8 cakes		Total cost of the items
			= \$26.25 + \$11.50 = \$37.75
22.	15 + 8 = 23		<u>Ans: \$37.75</u>
	<u>Ans: (86 x 15) + (86 x 8) is the same</u>		
	as 86 x 23, so the answer would be	25.	Discount
	incorrect.		= 20% x Cost of a cricket bat
			$=\frac{20}{100} \times \frac{400}{1} = 20 \times 4 = $ \$80.00
23.	Number of high heels		1 <del>00</del> 1
	$=\frac{1}{4-1} \times \frac{60-15}{1} = 15$ high heels		Reduced price of a cricket bat
	Number of high heels and sneakers		= Regular price – Discount
	= 15 + 30 = 45 shoes		= \$400.00 - \$80.00 = \$320.00
			+ ····· + ····· + ·····
	Number of sandals		Total cost of 4 cricket bats after the
	= 60 - 45 = 15 sandals		discount
	Fraction of the shoes that was		= \$320.00 x 4 = \$1 280.00
	sandals		<u>Ans: \$1 280.00</u>
	$=\frac{15}{60}$ when reduced by $15=\frac{1}{4}$		
	$\begin{bmatrix} -60 \\ 1 \end{bmatrix}$	L	·]
	Ans: $\frac{1}{4}$		

26.	3/21/
20.	$\sqrt[3]{216}$
	$216 \div 2 = 108$
	$108 \div 2 = 54$
	$54 \div 2 = 27$
	27÷3=9
	9÷3=3
	$3 \div 3 = 1$
	$(2 \times 2 \times 2) \times (3 \times 3 \times 3) = 216$
	$\sqrt[3]{216} = 2 \times 3 = 6$
	$7^2 = 7 \times 7 = 49$
	49 + 6 = 55
	<u>Ans: 55</u>
27.	175
	x <u>0.08</u>
	<u>14.00</u>
	<u>Ans: 14</u>
28.	66 x 37 = 2442
20.	2442 – 312 = 2130
	Ans: 2 130
	<u></u>
29.	1 hour = 60 minutes
	Length of time Giselle took to
	complete the exam
	= 60 + 20 = 80 minutes
	Length of time Hema took to
	complete the exam
	$=\frac{4}{5} \times \frac{80 - 16}{1} = 4 \times 16 = 64$ minutes
	01 1
	64 minutes = 1 hour 4 minutes
	Time Hema completed the exam
	= hr min
	9 30
	+ <u>1 04</u>
	<u>10 34</u> = 10:34 a.m.
	Ans: 10:34 a.m.

30. Miss Mindy's: 1 kg of peas = \$5.20 Grocer Green: 1 kg = 1000 g $1\,000\,g \div 250\,g = 4$  $1 \text{ kg of peas} = $1.40 \times 4 = $5.60$ Pop's Shop: 1 kg = 1000 g  $1\ 000\ g \div 500\ g = 2$ 1 kg of peas = \$2.70 x 2 = \$5.40**Ans: Grocer Green** 31. Cost of the journey = \$3.00 x 50 = \$150.00 Amount of money each person paid = \$150.00 ÷ 2 = \$75.00 Ans: \$75.00 62.7 kg – 6.1 kg = 56.6 kg 32. Sam's weight = 56.6 kg  $\div$  2 = 28.3 kg Fred weight = 28.3 + 6.1 = 34.4 kg Ans: Fred: 34.4 kg Sam: 28.3 kg 33. The box is a cuboid. Ans: Faces: 6 Vertices: 8 34. Ans: 3 ₽ 35. Total number of marks scored = Mean mark x nos. of subjects = 91 x 4 = 364 Sum of marks scored in 3 subjects = 100 + 93 + 79 = 272 Science mark = 364 - 272 = 92 Ans: 92

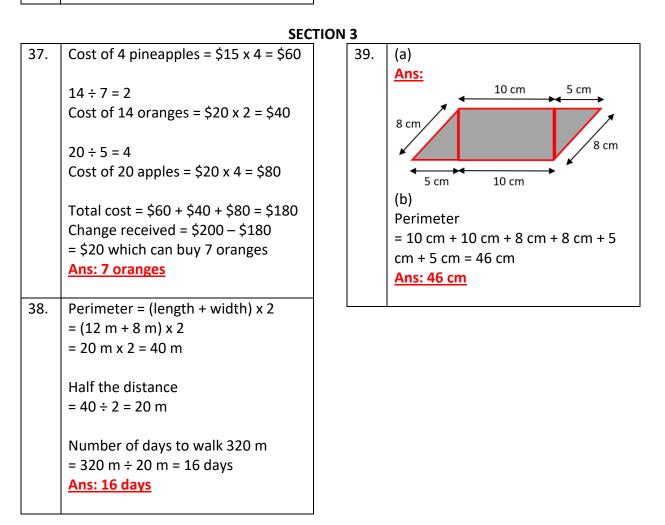
36.	Total number of boxes of thumb
	tacks = (7 + 5 + 3 + 1 + 5) x 5
	= 21 x 5 = 105 boxes of thumb tacks
	<u>Method 1</u>
	Profit made from the sale of 1 box
	of thumb tacks
	= Selling price – Cost price
	= \$7.00 - \$4.00 = \$3.00
	Profit made from the sale of thumb
	tacks that week
	= Profit made from the sale of 1 box
	of thumb tacks x number of boxes
	sold that week
	= \$3.00 x 105 boxes = \$315.00

Method 2 Cost price of all the boxes = 105 x \$4.00 = \$420.00 Selling price of all the boxes = 105 x \$7.00 = \$735.00 Profit made from the sale of thumb tacks that week

= Selling price – Cost price

= \$735.00 - \$420.00 = \$315.00

Ans: \$315.00



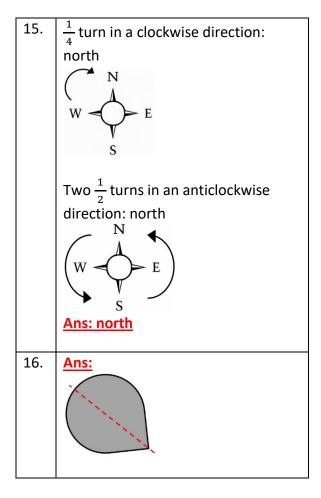
40.	(a) <u>Method 1</u> Total number sneakers icons = 7 + 6 + 2 + 4 + 5 + 8 = 32
	Number of sneakers icons on Thursday = 4
	Percent of the pairs of sneakers that were sold on Thursday $=\frac{4}{32-8} \times \frac{100}{1} = 12\frac{1}{2}\%$
	<u>Method 2</u> Total number of pairs of sneakers sold = (7 + 6 + 2 + 4 + 5 + 8) x 10 = 32 x 10 = 320 pairs of sneakers
	Number of pairs of sneakers sold on Thursday = 4 x 10 = 40 pairs of sneakers
	Percent of the pairs of sneakers that were sold on Thursday $=\frac{40}{320\cdot8} \times \frac{100}{1} = 12\frac{1}{2}\%$ <u>Ans:</u> $12\frac{1}{2}\%$

(b) <u>Method 1</u>
Number of pairs of socks handed out that week
= Number of icons x 3
= 96 pairs of socks

Method 2 320 pairs of sneakers ÷ 10 = 32 Number of pairs of socks handed out that week = 32 x 3 = 96 pairs of socks Ans: 96 pairs of socks

	SEC	TION	1
1.	<u>Ans: 9</u>		1
2.	0208 8 <del>1664</del>	-	
	<u>Ans: 208</u>		
3.	75% = $\frac{75}{100}$ when reduced by 25 = $\frac{3}{4}$ Ans: $\frac{3}{4}$		
4.	Thousands Hundreds Tens Ones		
	2295Hundreds digit is less than 5 so, the thousands digit remains the same.Ans: 2 000		1
5.	7.00 - <u>3.85</u> <u>3.15</u> <u>Ans: 3.15</u>	-	1
6.	$7^2 = 7 \times 7 = 49$ 49 - 23 = 26 Ans: 26	-	
7		-	1
7.	$\frac{1}{6} = 23$		
	$\frac{6}{6} = 23 \times 6 = 138$ Ans: 138		1
8.	Use inverse operations. 6 x 7 = 42 42 - 6 = 36 <u>Ans: 36</u>		
9.	1 x 25¢ = 25¢ 2 x 10¢ = 20¢ 25¢ + 20 ¢ = 45¢ <u>Ans: 3 coins</u>		

10.	$\frac{\text{Method 1}}{\frac{2}{3}} = $12.50$
	$\frac{1}{3}$ = \$12.50 ÷ 2 = \$6.25
	$\frac{3}{3}$ = \$6.25 x 3 = \$18.75
	<u>Method 2</u> $$12.50 \div \frac{2}{3} = \frac{12.50 \cdot 6.25}{1} \times \frac{3}{2 \cdot 1}$ $= $6.25 \times 3 = $18.75$ <u>Ans: \$18.75</u>
11.	1 kg = 1000 g 5.6 kg x 1000 = 5 600 g <u>Ans: 5 600 g</u>
12.	The triangle is an isosceles triangle. Combined length of the two equal sides = 12 cm x 2 = 24 cm Length of side A = Perimeter – 24 cm = 32 cm – 24 cm = 8 cm <u>Ans: 8 cm</u>
13.	Length of side = $\sqrt{\text{Area}}$ = $\sqrt{121}$ cm <sup>2</sup> = 11 cm <u>Ans: 11 cm</u>
14.	Hamza took less time and finished first. <u>Ans: Hamza</u>



17.	Ans: B
18.	Goals scored by teams A, B, D and E = (3 + 5 + 2 + 4) x 2 = 14 x 2 = 28 Goals scored by team C = 38 - 28 = 10 <u>Ans: 10</u>
19.	The sum of items = Mean x Number of items = 42 x 6 = 252 <u>Ans: 252</u>
20.	The most frequent shoe size or mode is 4. <u>Ans: 4</u>

**SECTION 2** 

21.	$\frac{3}{5} + \frac{3}{10}$	
	$\frac{3}{5} = \frac{6}{10}$	
	Fraction of allowance spent on lunch and snacks	
	$= \frac{6}{10} + \frac{3}{10} = \frac{9}{10}$	
	Fraction of allowance saved	
	$=\frac{10}{10}-\frac{9}{10}=\frac{1}{10}$	
	$\frac{\text{Ans:}}{10}$	
22.	475 ÷ 19 = 25 students	
	Ans: 25 students	
23.	First number = 9 x 2 = 18	
	Second number = sum – 18	
	= 54 – 18 = 36	
	Ans: 18 and 36	

2	
24.	$B = (A + C) \div 2$
	$A = \frac{1}{5} = \frac{2}{10}$
	A + C = $\frac{2}{10} + \frac{3}{10} = \frac{5}{10}$
	$\frac{\frac{5}{10} \div 2}{5} = \frac{\frac{5}{10}}{\frac{1}{2}} \times \frac{1}{2} = \frac{5}{\frac{20}{20}}$ when reduced by $5 = \frac{1}{\frac{4}{4}}$ <u>Ans:</u> $\frac{1}{\frac{4}{4}}$
25.	Number of red pens = 86 – 37 blue pens = 49 red pens Number of pencils = 49 x 2 = 98 pencils <u>Ans: 98 pencils</u>
	24.

• • • 7

26.	Use inverse operations. 188 – 67 = 121 (N represents the number) N <sup>2</sup> = 121 N = $\sqrt{121}$ = 11 Ans: 11 Profit = $\frac{25 \ 1}{100 \ 4} \times \frac{\$1260}{1} = \$1260 \div 4 = \$315$ Selling price of bicycle = \$1 260 + \$315 = \$1 575 Ans: \$1 575.00	
28.	$14 \div 7 = 2$ $14 \text{ limes are sold for}$ $= $20 \times 2 = $40$ Cost of apples $= \text{Total cost} - \text{cost of limes}$ $= $120 - $40 = $80$ $$80 \div 20 \text{ apples} = $4 \text{ per apple}$ $$20 \div $4 = 5 \text{ apples}$ Ans: 5 apples	
29.	Area of square = side x side = 6 cm x 6 cm = 36 cm <sup>2</sup> Area of rectangle = length x breadth = 12 cm x 3 cm = 36 cm <sup>2</sup> <u>Ans: 36 cm<sup>2</sup></u> The square and rectangle have the same area because the length of the rectangle is twice the side of the square and the breadth of the rectangle is half the side of the square. The length and width of another similar rectangle would be 9 cm x 4 cm. Other possible answers include: 36 cm x 1 cm, 18 cm x 2 cm, 8 cm x 4.5 cm, or any other two values when multiplied equal 36 cm.	

30.	Weight of 2 apples = 600 g x 2 = 1 200 g
	1 000 g = 1 kg Weight of apples in kg 1 200 g ÷ 1000 = 1.2 kg
	Weight of 2 paw paws = 3.3 kg x 2 = 6.6 kg
	Total weight = 6.6 kg + 1.2 kg = 7.8 kg <u>Ans: 7.8 kg</u>
31.	$\frac{3}{4}$ hr = 45 mins
	Length of both halves = 45 mins x 2 = 90 mins
	Total length of concert $-00$ mins $-110$ mins
	= 90 mins + 20 mins = 110 mins
	110 mins = 1 hr 50 mins
	Time concert ended
	= hr min
	8 50
	+ 1 50 $9^{+1} 100^{-60}$
	<u>10 40</u> 10:40 p.m.
	Ans: 10:40 p.m.
32.	1 km = 1000 m
	Day 2 = 3.75 km = 3 km 750 m Total distance covered = sum of the
	3 days
	km m
	Day 1 2 250
	Day 2 3 750
	Day 3 + <u>3 500</u>
	<u>8<sup>+1</sup> <del>1</del>500</u>
	<u>9 500</u>
	<u>Ans: 9 km 500 m</u>
33.	Ans: A half turn

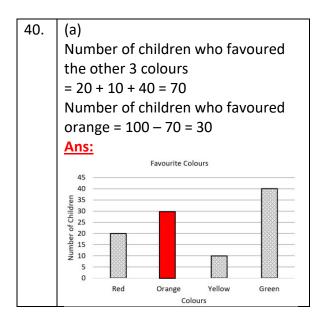
# SEA Mathematics Practice Tests

34.	-	a cube with 12 edges, 6 d 8 vertices.	
35.	cycle = 40 (1 = 40 26 Walk and	Bus = 12 Number of students who walk and cycle = $40 - (14 + 12)$ = $40 - 26 = 14$ students Walk and cycle separately = $14 \div 2 = 7$ students	
	Car Bus Walk Cycle	Number of students Htt Htt IIII Htt Htt II Htt II Htt II Htt II	

36. Total number of pictures =  $(2 + 5 + 3 + 2) \times 8$ =  $12 \times 8 = 96$  pictures Mean number of pictures stored by each person =  $96 \div 4 = 24$  pictures <u>Ans: 24 pictures</u>

37.	Number of mangoes Dwayne picks = 300 + 120 = 420 mangoes Number of boxes Alex uses = 300 ÷ 50 = 6 boxes Number of boxes Dwayne uses	
	= 420 $\div$ 60 = 7 boxes Difference in the number of boxes packed = 7 – 6 = 1 box <u>Ans: 1 box</u>	
38.	Decimal fraction of the race Raj ran on Sunday = 1.0 – 0.4 = 0.6 Distance Raj ran on Sunday = 90 km x 0.6 = 54 km	
	Distance Raj ran before he stopped for lunch on Sunday = $\frac{5}{9-1}x\frac{54-6}{1} = 5 \times 6 = 30$ km Ans: 30 km	

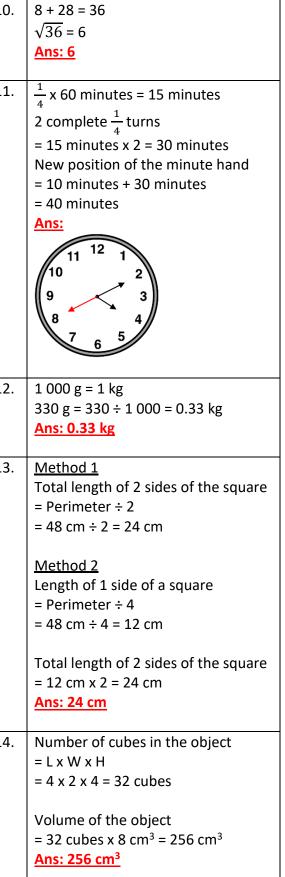
3			
39. <u>Ans:</u>			
	Name of Shape	Regular Shape	Irregular Shape
	Quadrilateral		$\sum$
	Pentagon		$\bigcirc$
	Hexagon	$\bigcirc$	$\square$
	Octagon	$\bigcirc$	$\bigwedge$



(b)  
Method 1  
Percent of children who favoured  
green = 
$$\frac{40}{100}$$
 = 40%  
Method 2  
Percent of children who favoured  
green =  $\frac{40}{100} \times \frac{100}{1}$  = 40%  
Ans: 40%

**SECTION 1** 

	SEC	TION 1	
1.	HundredsTensOnes848857	10.	8 + 28 = 36 $\sqrt{36} = 6$ <u>Ans: 6</u>
	9     6     0       8     5     5       Ans: 960, 857, 855, 848	11.	$\frac{1}{4}$ x 60 min 2 complete = 15 minut
2.	Down payment = $\frac{25 \cdot 1}{400 \cdot 4} \times \frac{8000}{1} = \$8000 \div 4 = \$2000$ Ans: \$2 000.00		New positi = 10 minut = 40 minut <u>Ans:</u>
3.	$\frac{\frac{3}{8} \times \frac{100}{1} = \frac{300}{8} = 37\frac{1}{2}\%}{\frac{\text{Ans:}}{2} 37\frac{1}{2}\%}$		11 <sup>12</sup> 9 8
4.	$7 \times 10^{\circ} = 70^{\circ}$ $4 \times 5^{\circ} = 20^{\circ}$ $70^{\circ} + 20^{\circ} = 90^{\circ}$ Ans: 90^{\circ}		8 7 6
5.	3.00 - 0.16	12.	1 000 g = 1 330 g = 330 <u>Ans: 0.33</u>
	<u>2.84</u> <u>Ans: 2.84</u>	13.	<u>Method 1</u> Total lengt = Perimete
6.	Selling price > cost price Ans: Profit		$= 48 \text{ cm} \div 2$
7.	$\frac{\frac{2}{5-1} \times \frac{20.4}{1}}{\frac{1}{5} = 2 \times 4 = 8}$ <u>Ans: 8</u>		Method 2 Length of 1 = Perimete = 48 cm ÷ 4
8.	Number of green pimentoes = $\frac{3\theta}{100} \times \frac{8\theta}{1} = 3 \times 8 = 24$ green pimentoes <u>Ans: 24 green pimentoes</u>		Total lengt = 12 cm x 2 <u>Ans: 24 cm</u>
9.	$3\frac{1}{4}$ months = $\frac{13}{4}$ months $\frac{13}{41} \times \frac{41}{1} = 13$ weeks	14.	Number of = L x W x H = 4 x 2 x 4
	Ans: 13 weeks		Volume of = 32 cubes



# ANSWER GUIDE SEA Mathematics Practice Tests

15.	Ans: C
16.	Ans: A triangular prism
17.	Angle Y is < 90°, so it is an acute angle. <u>Ans: An acute angle</u>

18.	Total of the 2 numbers = Mean x Number of items = 9 x 2 = 18 Value of the other number = 18 - 7 = 11 <u>Ans: 11</u>
19.	Number of pears = 10 Number of mangoes = 3 10 – 3 = 7 pears <u>Ans: 7 pears</u>

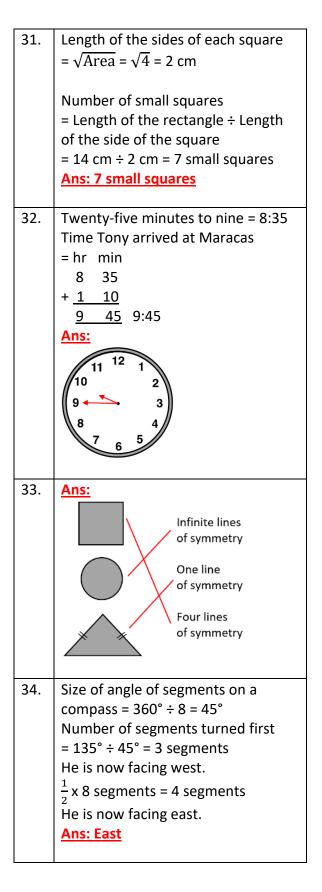
20. Ans: Friday

21.	LCM of 18, 9, 3, 6 = 18
	$\frac{5}{9} = \frac{10}{18} \qquad \frac{5}{6} = \frac{15}{18} \qquad \frac{1}{3} = \frac{6}{18}$
	$\frac{2}{18} + \frac{10}{18} + \frac{6}{18} = \frac{18}{18}$
	<u>Ans:</u> $\frac{2}{18}$ , $\frac{5}{9}$ , $\frac{1}{3}$
22.	Use inverse operations.
	33 – 13 = 20
	20 ÷ 4 = 5
	<u>Ans: 5</u>

2	
23.	3:20 p.m. expressed in 24-hour clock format = hr min 3 20 + <u>12 00</u> <u>15 20</u>
	Length of time Avion parked her car in the car park = hr min $15^{-1} 20^{+60}$ 14 80 - <u>8 30</u> <u>6 50</u> = 6 hr 50 min.
	50 minutes is part of an hour, so the length of time Avion is charged to park her car = 7 hours Total cost to park the car = \$7.00 x 7 hrs = \$49.00
	Change Avion received = \$100.00 - \$49.00 = \$51.00 <u>Ans: <b>\$51.00</b></u>

24.	Percent of the chocolates each child	
	received = 100% ÷ 8 = 12.5%	
	Decimal fraction of the chocolates	
	each child received	
	$= 12.5\% \div 100 = 0.125$	
	Ans: 0.125	
	All5. 0.125	
25.	Discount received = Original selling	
	price-Reduced selling price	
	= \$80.00 - \$64.00 = \$16.00	
	Discount = $\frac{16 \cdot 1}{80 \cdot 5} \times \frac{100}{1} = 20\%$	
	000 1	
	<u>Ans: 20%</u>	
26.	200 x 0.65 = 130	
	$\frac{40}{100} \times \frac{300}{1} = 40 \times 3 = 120$	
	100 - 120 = 10	
	<u>Ans: 10</u>	
27.	Michael: X + 10 + 10	
	Cora: X + 10	
	Lorraine: X	
	X + X + X + 10 + 10 + 10	
	= 150 followers	
	3 X + 30 = 150 followers	
	3 X = 150 - 30 = 120 followers	
	$X = 120 \div 3 = 40$ followers	
	Number of followers Michael has	
	= 40 + 10 + 10 = 60 followers	
	Ans: 60 followers	

28.	Number of doors Denzil makes each day = 8 + 4 = 12 doors Number of doors they make altogether each day = 12 + 8 = 20 doors Total number of doors on 4 pallets = 30 x 4 = 120 doors Number of days it takes them both to construct 4 pallets of doors = 120 ÷ 20 = 6 days <u>Ans: 6 days</u>
29.	1 000 g = 1 kg 400 g = 400 $\div$ 1000 = 0.4 kg Weight of 1 watermelon in kg = 3.4 kg Weight of 3 watermelons in kg = 3.4 kg x 3 = 10.2 kg Weight of 1 paw paw in kg = 5 500 $\div$ 1000 = 5.5 kg Combined weight of all the items = 10.2 kg + 5.5 kg = 15.7 kg Ans: 15.7 kg
30.	Triangle A is an equilateral triangle. Perimeter of Triangle A = Side x 3 = 9 cm x 3 = 27 cm Triangle B is a scalene triangle. Sum of the 2 known sides = 12 cm + 10 cm = 22 cm Length of the side P = 27 cm - 22 cm = 5 cm <u>Ans: 5 cm</u>



35. Method 1 Total number of blocks = 5 + 3 + 2 + 6 + 3 + 1= 20 blocks Number of blocks representing the first 2 months = 5 + 3 = 8 Percent of the buckets of paint sold in the first 2 months  $=\frac{8}{20} \frac{1}{1} \times \frac{100}{1} = 8 \times 5 = 40\%$ Method 2 Total number of buckets of paint sold  $= (5 + 3 + 2 + 6 + 3 + 1) \times 10$ = 20 x 10 = 200 buckets of paint Number of buckets of paint sold in the first 2 months  $= (5 + 3) \times 10$  $= 8 \times 10 = 80$  buckets of paint Percent of the buckets of paint sold in the first 2 months  $=\frac{80}{200} \times \frac{100}{1} = 40\%$ Ans: 40% Ans: The 2 days that Kevin should 36. sell his coconuts are Monday and Thursday because those are the days on which most coconuts were sold.

SECTION 3

	SECT	FION 3	
37.	SECT Store A Discount $=\frac{20}{100} \times \frac{600}{1} = 20 \times 6 = $120.00$ Selling Price after discount = \$600.00 - \$120.00 = \$480.00 Store B Discount $=\frac{35}{100} \times \frac{800}{1} = 35 \times 8 = $280.00$ Selling Price after discount = \$800.00 - \$280.00 = \$520.00 Store A has the cheaper price. Ans: Store A 1 litre = 1 000 ml 14.4 L x 1 000 = 14 400 ml Number of cups sold $= 14 400 \div 600 ml = 24 cups$ Total money $= $4.50 \times 24 cups = $108.00$ Ans: \$108.00	FION 3 40.	(a) Total age of the 3 boys = 10 + 8 + 8 = 26 years $\frac{Method 1}{\frac{1}{4}} \text{ of the total age of the boys} = 10$ $\frac{4}{4} \text{ of the total age of the boys} = 10$ $\frac{4}{4} \text{ of the total age of the boys} = 10 \times 4 = 40 \text{ years}$ Mark's age = 40 - 26 = 14 years Mark's age = 40 - 26 = 14 years
39.	(a) Ans: Cube (b) Ans: Number Number Types of of Faces of Vertices Internal Angles 6 8 90° or right-angle internal angles		Harry Joe Colin Mark Boys (b) <u>Ans: Joe and Colin are twins</u> <u>because they are the same age.</u>

SECTION 1

	SEC	TION	1	
1.	Ans: Six Hundred and Seven Thousand and Nine		8.	95 X 2 = 190 Ans: 190 keychains
2.	36 ÷ 6 = 6 5 x 6 = 30 <u>Ans: 30</u>		9.	$0.375 = \frac{375}{1000} = \frac{3}{8}$ <u>Ans:</u> $\frac{3}{8}$
3.	Number of tyres on each car         = 4 + 1 = 5 tyres         Total number of tyres         = 9 cars x 5 tyres = 45 tyres         Ans: 45 tyres		10.	Sum of green, red and blue erasers = 6 + 4 + 5 = 15 Number of yellow erasers = 25 - 15 = 10 Percent of yellow erasers = $\frac{10}{25} x \frac{100}{4} = 10 x 4 = 40\%$ <u>Ans: 40%</u>
	17.38The hundredths digit is equal to or more than 5 so, the tenths digit increases by 1.Ans: 17.4		11.	$ \underbrace{Method 1}{3.5 - 1 = 2.5 \text{ cm}} $
5.	$\frac{2}{3 \cdot 1} \times \frac{42 \cdot 4}{1} = 2 \times 4 = 8 \text{ slices}$ Ans:			$\frac{\text{Method 2}}{\text{Measure the intervals.}}$ $1 + 1 + \frac{1}{2} = 2 \frac{1}{2} \text{ cm}$ $\frac{\text{Ans: 2.5 cm or 2}}{2} \frac{1}{2} \text{ cm}$
			12.	The triangle is an equilateral triangle. Length of side AC
6.	16.75 x <u>3</u> <u>50.25</u> <u>Ans: 50.25</u>			= Perimeter ÷ 3 = 39 m ÷ 3 = 13 m <u>Ans: 13 m</u>
7.	Pattern: The difference between successive numbers increases by 0.1. 0.3 + 0.7 = 1.0 1.0 + 0.8 = 1.8 1.8 + 0.9 = 2.7 2.7 + 1.0 = 3.7 <u>Ans: 2.7</u>			

13.	1:25 in 24-hour format = hr min 12 00 + $1 25$ 13 25 1 hour = 60 minutes Time taken to complete the test = hr min $13^{-1} 25^{+60}$ 12 85 10 45
	- <u>10 45</u> <u>2 40</u> <u>Ans: 2 hours 40 minutes</u>
14.	Width = area $\div$ length = 18 m <sup>2</sup> $\div$ 6 = 3 m <u>Ans: 3 m</u>
15.	Ans:
16.	A right-angle turn = $\frac{1}{4}$ turn 3 quarter turns = 3 right-angle turns W K K K K K K K K K K K K K

17.		
	Ans: Rectangul	ar based pyramid
18.	= (6 + 2.5 + 1.5 = 13 x 4 = 52	ne users represented + 3) x 4 ing iPhone users $\frac{Number of Students}{1}$ $\frac{1}{1}$
19.	Sum of items = mean x number of items = $9 \times 3 = 27$ 9 + 11 = 20 Third number = $27 - 20 = 7$ <u>Ans: 7</u>	
20.	The most frequent number or mode is 1.5 m. <u>Ans: 1.5 m</u>	

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	SEL
21.	23 x 4 = 92 chairs <u>Ans: 92 chairs</u>
22.	$\frac{\text{Method 1}}{\frac{2}{5}} = 80$
	$\frac{1}{5} = 80 \div 2 = 40$
	$\frac{5}{5} = 40 \times 5 = 200$
	$\frac{3}{-4-1} \times \frac{200}{1} = 3 \times 50 = 150$
	$\frac{\text{Method 2}}{80 \div \frac{2}{5}} = \frac{\frac{80}{40} \cdot 40}{1} \times \frac{5}{\frac{2}{2} \cdot 1} = 40 \times 5 = 200$
	$\frac{3}{-4-1} \times \frac{200 \ 50}{1} = 3 \times 50 = 150$ <u>Ans: 150</u>
23.	LCM of 3, 12 = 12
	Flour for bread = $\frac{1}{3} = \frac{4}{12}$
	<sup>3</sup> 12 Flour used for bread and cakes
	$=\frac{4}{12}+\frac{7}{12}=\frac{11}{12}$
	12 12 12 Fraction of flour not used
	$=\frac{12}{12}-\frac{11}{12}=\frac{1}{12}$ kg
	$\frac{12}{\text{Ans:}} \frac{1}{12} \text{ kg}$
	<u>Alls.</u> 12 NB
24.	Number of boxes
	= 100 biscuits ÷ 4 biscuits per box
	= 25 boxes Number of lollipops in total
	= 25 boxes x 3 lollipops in each box
	= 75 lollipops
	Ans: 75 lollipops
	<u>25 boxes</u>

Total cost of all the pens = $$4.25 \times 6 = $25.50$ Total cost of all the copy books = $$94.50 - $25.50 = $69.00$ Cost of 1 copy book = $$69.00 \div 6 = $11.50$ <u>Ans: \$11.50</u>
Discount = $20\% = \frac{20}{100}$ Discount on computer $\frac{20}{100} \frac{1}{5} \times \frac{4500}{1} = \frac{4500}{5} \frac{900}{5} = $900$ Cost after discount = \$4500 - \$900 = \$3600 <u>Ans: \$3600.00</u>
Students travelling by car or bus $= \frac{48}{100 4} \times \frac{25}{1} = \frac{48}{4 12} = 12 \text{ students}$ Fraction of students travelling by car $= \frac{4}{4} - \frac{1}{4} = \frac{3}{4}$ Students travelling by car $= \frac{3}{4 1} \times \frac{42}{1} = 3 \times 3 = 9 \text{ students}$ Ans: 9 students

ANSWER GUIDE SEA Mathematics Practice Tests

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28.	$\frac{1}{3}$ of Anthony's money = $\frac{2}{5}$ of	31.	Ti
	Liam's money		=
	$\frac{1}{3}$ Anthony's money		+
	$=\frac{1}{2} \frac{1}{1} \times \frac{120 \ 40}{1} = $40$		
	31 1		
	Method 1		Ti
	$\frac{2}{5}$ of Liam's money = \$40		=
	5		
	$\frac{1}{5}$ of Liam's money = \$40 ÷ 2 = \$20		-
	$\frac{-5}{5}$		
	5		Ar
	$\frac{5}{5}$ of Liam's money = \$20 x 5 = \$100	32.	Vo
	Mathad 2	52.	= :
	Method 2		
	$\frac{2}{5}$ of Liam's money = \$40		N
	2		= 4
	All of Liam's money = \$40 $\div \frac{2}{5}$		Vo
	$=\frac{\$40\ 20}{1}$ x $\frac{5}{\cancel{2}\ 1}$ = 5 x \$20 = \$100		= 2
	Ans: \$100.00		.,
29.	Area of one sheet of paper		= :   Ni
	= 75 cm x 40 cm = 3 000 cm <sup>2</sup>		= !
	Area of one notepad		Ar
	$= 10 \text{ cm x } 4 \text{ cm} = 40 \text{ cm}^2$		
	Number of notepads that can be made = $2000 \div 40 = 75$	33.	Ar
	made = 3000 ÷ 40 = 75 <u>Ans: 75 notepads</u>		O
			rig
30.	1 litre = 1 000 ml		0
	$12\frac{1}{2}$ litres = 12.5 litres		ar
	12.5 litres x 1 000 = 12 500 ml	34.	۸.
	Number of cups sold	54.	<u>Ar</u>
	= 12 500 ml ÷ 250 ml = 50 cups		
	Money collected		
	= 50 cups x \$15 = \$750		
	<u>Ans: \$750.00</u>		

31.	Time Asavari arrived at school = hr min 8 30 + <u>10</u> <u>8 40</u> Time Asavari left home		
	= hr min $8  ext{ 40}$ $-  ext{ 37}$		
	<u>Ans: 8:03 a.m.</u>		
32.	Volume of each cube in stack = 2 cm x 2 cm x 2 cm = 8 cm <sup>3</sup> Number of cubes in stack		
	= 4 cubes x 5 rows = 20 cubes Volume of cubes in stack = 20 cubes x 8 cm <sup>3</sup> = 160 cm <sup>3</sup>		
	Volume still required = 216 cm <sup>3</sup> - 160 cm <sup>3</sup> = 56 cm <sup>3</sup> Number of cubes required = 56 cm <sup>3</sup> $\div$ 8 cm <sup>3</sup> = 7 cubes <u>Ans: 7 cubes</u>		
33.	Ans: One pair of parallel sides with no right angles: <u>A</u> Opposite sides parallel with no right angles: <u>C</u>		
34.	Ans: Isosceles Triangle		
	<u> </u>		

35.	The sum of values = mean x number of values = 90 x 5 = 450 Sum of missing numbers = 450 - (92 + 65 + 75) = 450 - 232 = 218
	218 – 8 = 210 $1^{st}$ missing number = 210 ÷ 2 = 105 $2^{nd}$ missing number = 105 + 8 = 113 <u>Ans: 105 and 113</u>

36. Current modal number represented on Tuesday
5 icons x 5 = 25
Number of bicycles sold on Thursday
= 3 icons x 5 = 15 bicycles

15 + 5 = 20 bicycles

The modal number would not change as Tuesday would still have the highest frequency of sales. Ans: No, the modal number would not change as Tuesday would still have the highest frequency of sales of 25 bicycles, whereas Tuesday would only have 20 after 5 is added.

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37.	\$750.00 ÷ \$2.50	
	= 300 pommecytheres	
	300 ÷ 5 = 60 free pommecytheres	
	Number in the crate	
	= number sold + number free	
	= 300 + 60 = 360 pommecytheres	
	Ans: 360 pommecytheres	
	And boomineeveneres	
38.	Area of each square	
	$= 2 \text{ cm x } 2 \text{ cm} = 4 \text{ cm}^2$	
	Total number of squares needed = 48 cm <sup>2</sup> ÷ 4 cm <sup>2</sup> = 12 squares	
	Number of shaded squares	
	= 6 + 0.5 + 0.5 = 7 squares	
	Number Allan must colour = 12 – 7 = 5 squares <u>Ans: 5 squares</u>	

39.	Ans:		
	Shape	Properties	
	Rhombus	4 sides	
		2 pairs of parallel lines	
		opposite angles that are	
		equal	
	Isosceles	3 sides	
	Triangle	only 2 sides are equal in	
		length	
	Rectangle	all sides are	
		perpendicular	
		opposite sides are equal	
		in length	
	Scalene	3 unequal sides	
	Triangle		

ANSWER GUIDE

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40.	(a) Score for Test 2 = $\frac{2}{3} \times \frac{-90}{1} = 2 \times 30 = 60$
	Ans:
	Comprehension Test Scores
	Test 4 Test 3 Test 2 Test 1 0 10 20 30 40 50 60 70 80 90 100 Score
	(b)
	Mean score
	= sum of scores $\div$ number of tests
	$= (80 + 60 + 70 + 90) \div 4$
	= 300 ÷ 4 = 75
	<u>Ans: 75</u>

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(b)
Mean score
= sum of scores ÷ number of tests
= (80 + 60 + 70 + 90) ÷ 4
= 300 ÷ 4 = 75
Ans: 75

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1.	3 000 400 80 + <u>3</u> <u>3 483</u> <u>Ans: 3 483</u>
2.	$\frac{4}{-5 \cdot 1} \times \frac{200 - 40}{1} = 4 \times 40 = \$160.00$ <u>Ans: \$160.00</u>
3.	78 ÷ 6 = 13 Ans: 13
4.	Amount of money spent on travelling for the week = \$14.00 x 5 = \$70.00 <u>Ans: \$70.00</u>
5.	3 blue gems = 8 red gems 9 ÷ 3 = 3 9 blue gems = 3 x 8 = 24 red gems Ans: 24 red gems
6.	Total cost of the items = \$23.54 + \$8.65 = \$32.19 19¢ is < 50¢, so \$32.19 rounded off to the nearest dollar = \$32.00 <u>Ans: \$32.00</u>
7.	$0.35 = \frac{35}{100}$ when reduced by $5 = \frac{7}{20}$ Ans: $\frac{7}{20}$
8.	71 – 9 = 62 <u>Ans: 62</u>
9.	Total fraction of cake that was given away = $2 \times \frac{2}{5} = \frac{2}{1} \times \frac{2}{5} = \frac{4}{5}$ Fraction of the cake that remained $= \frac{5}{5} - \frac{4}{5} = \frac{1}{5}$ <u>Ans:</u> $\frac{1}{5}$

11	
10.	Number of reward cards given away $= \frac{3\theta}{100} \times \frac{18\theta}{1} = 3 \times 18$ $= 54 \text{ reward cards}$ <u>Ans: 54 reward cards</u>
11.	1 000 g = 1 kg 650 g = 650 ÷ 1 000 = 0.65 kg Weight of the watermelon in kgs = 4.3 kg + 0.65 kg = 4.95 kg <u>Ans: 4.95 kg</u>
12.	Time shown on the clock = 5:45 Correct time = hr min 5 45 - 18 5 27 = 5:27 Ans: 5:27
13.	Area of the square = Side x Side = 10 cm x 10 cm = 100 cm <sup>2</sup> Method 1 Area of shaded region = (100 cm <sup>2</sup> ÷ 4) x 2 = 25 cm <sup>2</sup> x 2 = 50 cm <sup>2</sup> Method 2 Shaded region = $\frac{2}{4} = \frac{1}{2}$ Area of shaded region = $\frac{1}{2}$ x 100 cm <sup>2</sup> = 50 cm <sup>2</sup> <u>Ans: 50 cm<sup>2</sup></u>
14.	The triangle is an isosceles triangle. Perimeter of the triangle = (13 cm x 2) + 18 cm = 26 cm + 18 cm = 44 cm <u>Ans: 44 cm</u>
15.	Ans: A sphere
16.	<u>Ans: <math>\frac{1}{3}</math> of a complete turn</u>

17.	Ans:
18.	The most frequent or modal length is 7.8 m. <u>Ans: 7.8 m</u>

19.	<u>Ans: 60</u>
20.	= Total number of virtual pets = (1 + 4 + 3 + 2 + 3) x 10 = 13 x 10 = 130 virtual pets
	Mean number of virtual pets each child owns = Total number of virtual pets ÷ Number of children = 130 ÷ 5 = 26 virtual pets <u>Ans: 26 virtual pets</u>

21.	Number of marks Ishmael earned $= \frac{90}{100} \times \frac{120}{1} = 108 \text{ marks}$ Number of marks Kevin earned $= \frac{2}{3 \cdot 1} \times \frac{108 \cdot 36}{1} = 2 \times 36 = 72 \text{ marks}$ Ans: 72 marks	
22.	Ans: Pizza B. To share a pizza evenly among 3 people, the number of slices must be divisible by 3. 18 is divisible by 3.	
23.	Number of cookies in each bag = $180 \div 6 = 30$ cookies Number of oatmeal cookies in each bag = $\frac{2}{5-1} \times \frac{30 \cdot 6}{1} = 2 \times 6$ = 12 oatmeal cookies <u>Ans: 12 oatmeal cookies</u>	
24.	Percent of students that are girls = 100% - 45% = 55% Number of girls in the school = $\frac{55}{100} \times \frac{700}{1} = 55 \times 7 = 385$ girls <u>Ans: 385 girls</u>	

2		
25.	Age of the elder child in 2019 = $42 \div 3 = 14$ years Age of the younger child in 2019 = $14 - 5 = 9$ years Year in which the younger child was born = $2019 - 9 = 2010$ <u>Ans: 2010</u>	
26.	Discount = $$45.00 \times 20\%$ = $\frac{45}{1} \times \frac{20 \cdot 1}{100 \cdot 5} = 45 \div 5 = $9.00$ Cost after discount = $$45.00 - $9.00 = $36.00$ Cost of 2 bottles = $$36.00 \times 2 = $72.00$ Change received = $$100 - $72.00 = $28.00$ Ans: \$28.00	

27.	$\frac{\text{Method 1}}{6-2=4} \\ \frac{1}{5} - \frac{7}{15} \\ \frac{1}$
	LCM of 5, 15 = 15 $\frac{1}{5} = \frac{3}{15}$
	$\frac{\frac{3}{15} - \frac{7}{15}}{\frac{15}{15} - \frac{7}{15}}$ Borrow a whole $= \frac{15}{15}$ , add to $\frac{3}{15}$ 4 - 1 = 3 $\left(\frac{\frac{15}{15} + \frac{3}{15}}{15}\right) - \frac{7}{15} = \frac{18}{15} - \frac{7}{15} = \frac{11}{15}$
	$3 + \frac{11}{15} = 3\frac{11}{15}$
	$\frac{\text{Method 2}}{6\frac{1}{5} = \frac{31}{5}} \qquad 2\frac{7}{15} = \frac{37}{15}$
	LCM of 5, 15 = 15 $\frac{31}{5} = \frac{93}{15}$
	$\frac{93}{15} - \frac{37}{15} = \frac{56}{15} = 3\frac{11}{15}$
	<u>Ans:</u> $3\frac{11}{15}$
28.	Pattern $1^2 = 1 \times 1 = 1$ $2^2 = 2 \times 2 = 4$ $3^2 = 3 \times 3 = 9$ $5^2 = 5 \times 5 = 25$ $7^2 = 7 \times 7 = 49$ $11^2 = 11 \times 11 = 121$ $13^2 = 13 \times 13 = 169$ Ans: The number pattern is the squares of the series of prime         numbers.         1       4       9       25 <u>49</u> 121 <u>169</u>

29.	Decimal fraction of the piece of wood remaining = $1.0 - 0.4 = 0.6$ Length of wood remaining in metres = $0.6 \times 6 \text{ m} = 3.6 \text{ m}$ Length of each small piece of wood = $3.6 \text{ m} \div 3 = 1.2 \text{ m}$ Ans: 1.2 m
30.	1 kg = 1 000 g Potatoes 2 kg = 1 000 x 2 = 2 000 g 2 000 g ÷ 250 g = 8 Total cost of the potatoes = \$2.50 x 8 = \$20.00 Bananas = $1\frac{1}{2}$ kg x 1 000 = $\frac{3}{2 - 1}$ x $\frac{1000 - 500}{1}$ = 3 x 500 = 1 500 g 1 500 g ÷ 500 g = 3 Total cost of the bananas = \$3.20 x 3 = \$9.60 Total cost of the items = \$20.00 + \$9.60 = \$29.60 Ans: \$29.60
31.	Distance has a beginning and an end so, subtract 1 from the number of light poles. Distance between every two light poles = Length of the street $\div$ (Number of light poles – 1) = 60 m $\div$ (21 – 1) = 60 m $\div$ 20 = 3 m <u>Ans: 3 m</u>
32.	Total weight of the books = kg g 8 900 x <u>6</u> <u>48<sup>+5</sup> 5400</u> <u>53 400</u> 53 kg 400 g or 53.4 kg <u>Ans: 53 kg 400 g or 53.4 kg</u>

33.	Number of edges in a cube = 12 Total length of all the edges = 12 x 7 = 84 cm <u>Ans: 84 cm</u>
34.	Area of a rectangle = Length x Width 32 cm <sup>2</sup> = Length x Width Pairs of factors of 32: (1, 32), (2, 16), (4, 8). The length and width dimensions that can be used on this grid: length 8 cm, width 4 cm A rectangle has 2 lines of symmetry. Ans:
	1 cm grid

35.	Total number of houses built in servers 2 and 3 = (3.5 + 2.5) x 6 = 6 x 6 = 36 houses <u>Ans: 36 houses</u>
36.	The modal toy is spinners. Number of toy cars = $10 - 3 = 7$ toy cars Total number of toys = $3 + 7 + 6 + 10 = 26$ toys

Ans: 26 toys

	SECTION 3					
37.	Number of nights at \$600 (Monday and Thursday) = 2 nights Cost of their stay during Monday and Thursday = \$600.00 x 2 = \$1 200.00 Number of nights at \$700 (Friday and Sunday) = 3 nights Cost of their stay between Friday and Sunday = \$700.00 x 3 = \$2 100.00		39.	(a) Length of the = 127 cm - (2 = 127 cm - 67 <u>Ans: 60 cm</u> (b) <u>Ans: Scalene</u> (c) Angle Y is > 18 is a reflex ang <u>Ans: A reflex</u>	7 cm+ 40 7 cm = 60 d <mark>Triangle</mark> 30° and < Ie.	cm) cm
38.	Total number of nights = 2 + 3 = 5 Total cost of the food = $$250.00 \times 5 = $1 250.00$ Total amount of money the Guevara family spent on hotel and food = $$1 200.00 + $2 100.00 + $1 250.00$ = $$4 550.00$ Ans: $$4 550.00$ Total length of time Miss Penny spent ironing = hr min 5 35 - $3 20$ 2 15 2 hrs 15 mins		40.	(a) Ans: Days Monday Tuesday Wednesday Thursday Friday (b) Total number = 6 + 9 + 10 + Fraction of the on Tuesday = $\frac{9}{36}$ when rea	7 + 4 = 36 e gyros th duced by 9	gyros at was sold $9 = \frac{1}{4}$
	Length of time she took to iron the blouses = 15 minutes x 5 = 75 minutes = 1 hr 15 mins Length of time spent ironing the skirts = hr min 2 15 -1 15 -1 15 -1 00 1 hr or 60 mins Time took to iron each skirt = 60 minutes $\div$ 6 = 10 minutes <u>Ans: 10 minutes</u>			Ans: 0.25		0.25

26

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	SEC		
1.	2109 + <u>435</u> <u>2544</u> <u>Ans: 2 544</u>		
2.	7.85 - <u>5.64</u> <u>2.21</u> <u>Ans: 2.21</u>		
3.	$35\% = \frac{35}{100}$ $\frac{357}{10020} \times \frac{60}{1} = \frac{7}{201} \times \frac{603}{1}$ $= 7 \times 3 = 21$ <u>Ans: 21</u>		
4.	$\frac{\frac{56}{64}}{\frac{64}{8}}$ when reduced by 8 = $\frac{7}{8}$ Ans: $\frac{7}{8}$		
5.	Percent = $\frac{45}{60} \frac{1}{4} \times \frac{100}{1} = \frac{1}{41} \times \frac{400}{1} \frac{25}{1} = 25\%$ <u>Ans: 25%</u>		
6.	This pattern consists of descending, odd, square numbers. 81 = 9 <sup>2</sup> 49 = 7 <sup>2</sup> 25 = 5 <sup>2</sup> 9 = 3 <sup>2</sup> <u>Ans: 9</u>		
7.	TensOnesD.P.TenthsHundredths83.25The hundredths digit is equal to 5 sothe tenths digit increases by 1.Ans: 83.3		
8.	1 journal = 30 pages 8 journals = 30 pages x 8 = 240 pages <u>Ans: 240 pages</u>		

9.	$4 \times 25^{\circ} = \$1.00$ $1 \times 10^{\circ} = .10^{\circ}$ $1 \times 5^{\circ} = .05^{\circ}$ $+ \underline{4} \times 1^{\circ} = \underline{.04^{\circ}}$ $\underline{10} \qquad \underline{\$1.19}$ <u>Ans: 10 coins</u>
10.	2017 – 1982 = 35 years Ans: 35 years
11.	Area of the garden = Length x Width = 12 m x 8 m = 96 m <sup>2</sup> Ans: 96 m <sup>2</sup>
12.	Ans: B
13.	60 minutes = 1 hour 240 minutes = 240 ÷ 60 = 4 hours <u>Ans: 4 hours</u>
14.	The tip of the pencil is before the 0 cm marker. Length of pencil > 6.5 cm. Rounded to the nearest cm = 7 cm Ans: 7 cm
15.	Ans: AB
16.	Ans: A
17.	Ans: Cylinder
18.	Friday = 7 children Thursday = 2 children 7 – 2 = 5 <u>Ans: 5 children</u>

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19.	The sum of items		20.	The most frequent fast food
	= mean x number of items			restaurant or mode is Pizza Hut.
	$=5\frac{1}{3} \times 9 = \frac{16}{21} \times \frac{9}{1} = 16 \times 3 = 48$			<u>Ans: Pizza Hut</u>
	Ans: 48			
		]		
			2	
21.	$\frac{2}{2} = \frac{20}{2}$		26.	1 pattern = 2 green marbles
	10 100			9 patterns = 9 x 2
	4 20 24 0 24			= 18 green marbles
	$\frac{4}{100} + \frac{20}{100} = \frac{24}{100} = 0.24$			
	<u>Ans: 0.24</u>			1 pattern = 3 + 2 + 4 = 9 marbles
				$\frac{2}{3}$ pattern = $\frac{2}{3} x \frac{9}{1} x \frac{3}{1} = 6$ marbles
22.	Use inverse operations			33-1 1 blue green red
	62 - 8 = 54			
	54 ÷ 6 = 9			1 2 3 4 5 6
	<u>Ans: 9</u>			2
				$\frac{2}{3}$ of a pattern = 2 green marbles
23.	The auditorium can seat			
	= 21 rows x 15 chairs = 315 people			Total number of green marbles
	Extra seats needed			= 18 + 2 = 20 green marbles
	= 450 – 315 = 135 seats			Ans: 20 green marbles
	Extra rows needed			
	= 135 seats ÷ 15 chairs = 9 rows		27.	Rent for 4 days
	Ans: 9 rows			= \$525 x 4 = \$2 100
				Total = Rent + Groceries
24.	Number of cucumbers			= \$2 100 + \$785 = \$2 885
	$=\frac{1}{21} \times \frac{150}{1} = 50$ cucumbers			<u>Ans: \$2 885.00</u>
	$\frac{3}{2}$ 1 1			
	Number of sweet peppers		28.	Richard's share = 2400 ÷ 2 = \$1200
				Remainder = \$2400 – \$1200 = \$1200
	$=\frac{10}{100} \times \frac{150}{1} = 15 \text{ sweet peppers}$			\$1 200 ÷ 3 = \$400
				Stacy = \$400 x 2 = \$800
	Number of potatoes			Sarah = \$400
	= 150 - (50 + 15)			Ans:
	= 150 - 65 = 85			Richard: <u>\$1 200.00</u>
	Ans: 85 potatoes			Stacy: <u>\$800.00</u>
		1		Sarah: <u>\$400.00</u>
25.	248			
	193		29.	1 litre = 1 000 ml
	+ <u>34</u>			Number of 25 ml cups
	<u>475</u>			= 1000 ml ÷ 25 ml = 40 cups
	<u>Ans: 475</u>			Ans: 40 cups

30.	1 kg = 1 000 g Flour remaining after making bread = Kg g <u>45<sup>-1</sup> 000<sup>+1000</sup></u> 44 1000 - <u>4 730</u> <u>40 270</u> Flour remaining after bag fell = 40 kg 270 g ÷ 2 = 20 kg 135 g <u>Ans: 20 kg 135 g</u>
31.	Ans: To calculate the total cost of the chain link required, Adonis must first calculate the length of chain link to buy then multiply it by \$35 per metre. To calculate the length, Adonis needs to determine the perimeter of the square piece of land. Perimeter of a square = side x 4. Perimeter of the land = 11 m x 4 = 44 m. Total cost of the chain link required = 44 m x \$35 = \$1 540
32.	Nikhil took $1\frac{1}{4}$ hours = 1 hour 15 minutes Length of time Ananya took to complete the test = hr min 1 15 - <u>10</u> <u>1 05</u> = 1 hour 5 minutes Time Ananya completed the test = hr min 8 30 + <u>1 05</u> <u>9 35</u> = 9:35 a.m. <u>Ans: 9:35 a.m.</u>

