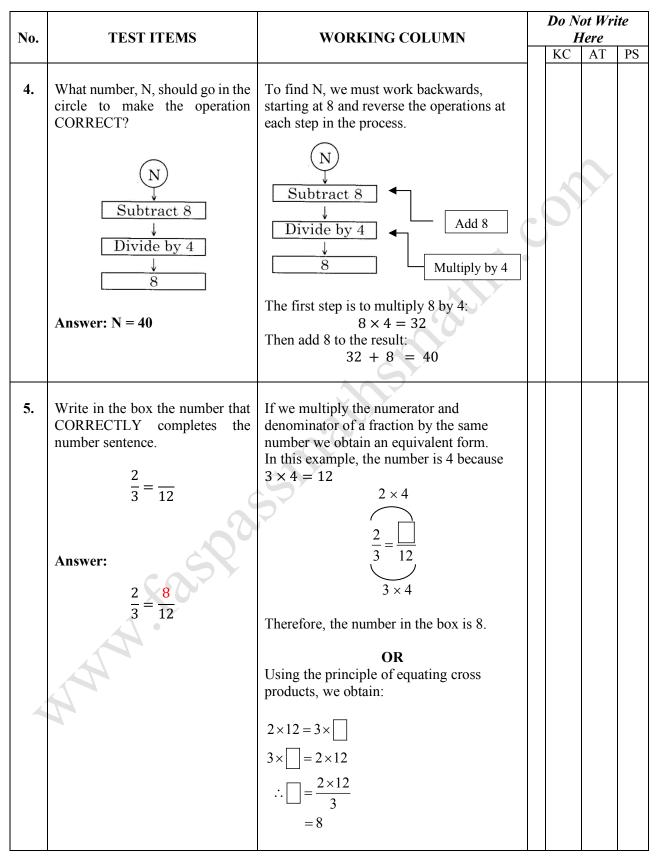


## SEA MATHS 2010

## Section I

No.	TEST ITEMS	WORKING COLUMN	]		ot Wri Iere	ite
				KC	AT	PS
1.	Write in figures: One million, two thousand and three.	One million = 1 000 000 Two thousand = 2 000 + Three = $3$ <u>1 002 003</u>		5		
	Answer: 1 002 003	Ś				
2.	Express the SHADED PART as a COMMON FRACTION of the whole shape.	The whole shape is divided into a total of $5 \times 3 = 15$ equal parts. The total number of shaded parts = 7				
		The fraction of the whole shape $= \frac{\text{Number of shaded parts}}{\text{Total number of parts}}$ $= \frac{7}{15}$				
	Answer: $\frac{7}{15}$	S				
3.	Complete the table below.           Common         Percentage           Fraction         15%           3         3	To complete the table, we have to express 15% as a fraction. $15\% = \frac{15}{100}$ $= \frac{15}{100} \frac{3}{20}$				
	<b>5</b> 60% <b>Answer:</b>	$=\frac{3}{20}$				
	Common Percentage Fraction					
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					
	5 60%					







No.	TEST ITEMS	WORKING COLUMN		Not He	t Wri ere	te
			KC		AT	PS
6.	At the market, a mother bought some fruits: 3 oranges, 4 pears and 5 mangoes. What FRACTION of the fruits was	Total number of fruits that Mother bought = $3 + 4 + 5$ = $12$				
	pears?	Number of pears $= 4$				
	Answer: $\frac{1}{3}$	The fraction of the fruits that is pears $=\frac{\text{Number of pears}}{\text{Total number of fruits}}$	0			
		$=\frac{4}{12}$ $=\frac{1}{3}$				
7.	Ken eats 4 plums each day. How many plums would he eat in TWO weeks?	Ken eats 4 plums each day. The number of days in 2 weeks $= 7 \times 2$ = 14				
	Answer: 56 plums	The number of plums that Ken eats in 2 weeks = No. of plums he eats each day × No. of days in 2 weeks				
	(	$= 4 \times 14$				
		= 56  plums				
8.	student who entered in the first hour was admitted free. If 46 students entered in the first	If every seventh student will be admitted free, then these students would be the 7 <sup>th</sup> ,14 <sup>th</sup> , 21 <sup>st</sup> , 28 <sup>th</sup> , 35 <sup>th</sup> and 42 <sup>nd</sup> student.				
	hour, how many of them entered free?	This amounts to 6 students. The number who entered free in the first				
	Answer: 6 students	hour is 6.				

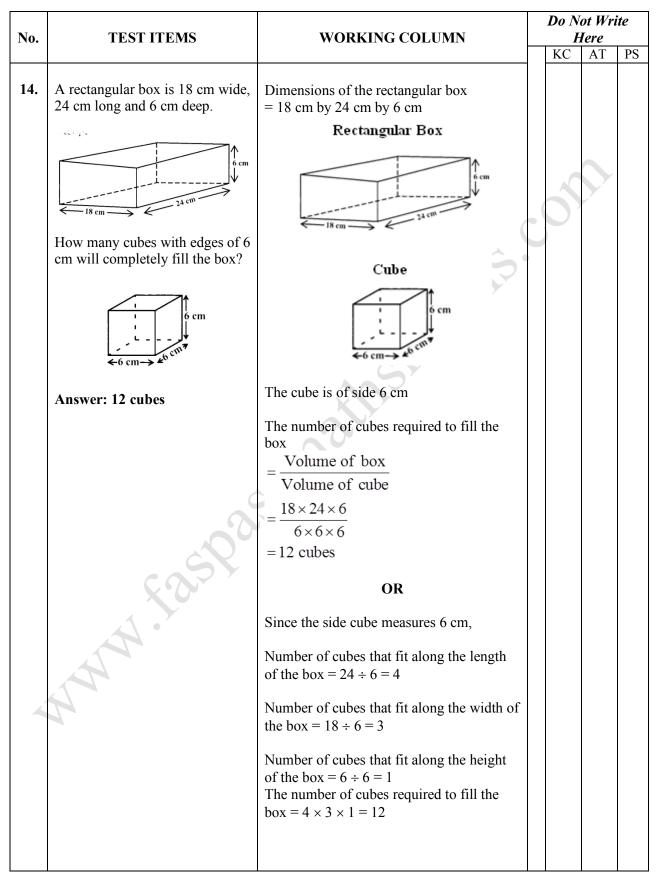


No.	TEST ITEMS	WORKING COLUMN			lot Wi Here	rite
				KC	AT	PS
9.	Which of the two sacks has the SMALLER mass?	The mass of the sack of sugar = $1.7 \text{ kg}$ Recall 1000 g = 1 kg				
	SUGAR SUGAR	Mass of sugar in grams $=1.7 \times 1000$ = 1700 g			h	,
		Mass of flour = $1690 \text{ g}$	(	C C		
	1.7 kg 1690 g	1690 g is less than 1700 g.				
	Answer: Sack of flour	The sack of flour has the smaller mass.				
10.	A ball is bought for \$35.00 and sold for \$48.00. Calculate the profit made in dollars.	Cost price of ball = \$35.00 Selling price of ball =\$48.00				
	promi mude in donais.	The profit = Selling price – Cost price				
		= \$48.00 - \$35.00				
	Answer: \$13.00	= \$13.00				
		Profit = \$13.00				
		110111 - \$13,00				
11.	A garden has the shape shown below with all the sides of equal length. The perimeter is 72 metres.	The figure shows the shape of the garden				
		The figure is made up of 6 equal sides and has perimeter = $72 \text{ m}$				
	What is the length of ONE side of the garden?	The length of each of the 6 equal sides $=\frac{\text{Perimeter}}{\text{Number of sides}}$				
	Answer: 12 m	$=\frac{72 \text{ m}}{6}$				
		=12 m				



No.	TEST ITEMS	WORKING COLUMN		ot Wr Here	ite
			KC	AT	PS
12.	Sally began reading a book at 8:17 p.m. She took a break after reading for half an hour. At what time did she take a break?	Sally starts to read at 8:17 p.m. Sally takes a break after reading for $\frac{1}{2}$ of an hour.			
	Answer: 8:47 p.m.	$\frac{1}{2}$ of an hour $=\frac{1}{2} \times 60$ minutes = 30 minutes	5	9	
		The time that Sally took the break =8:17 + $\frac{:30}{8:47}$			
		The time that Sally took the break was 8:47 p.m.			
13.	A rectangular garden bed is 5 metres long and has an area of 18 square metres. $\begin{array}{c} & & \\ & & $	Rectangular garden bed of area 18 m²Area of the rectangular bed = 18 square metres (m²) The length of the bed = 5 mArea of rectangle = Length × Width $5 \times$ Width of bed = 18 Width of bed = $\frac{18}{5}$ $= 3\frac{3}{5}$ m			







No.	TEST ITEMS	WORKING COLUMN		ot Wr ere	ite
			KC	 AT	PS
15.	Jessica bought a blouse for \$80.00 and sold it for \$60.00. Calculate the percentage loss on the sale?	The cost of the blouse = \$80 Selling price = \$60 which is less than the cost price. Hence, there is a loss. Loss = Cost Price - Selling price = \$80 - \$60			
	Answer: 25%	= \$20 The percentage loss $= \frac{\text{Loss}}{\text{Cost price}} \times 100\%$ $= \frac{20}{80} \times 100 = 25\%$			
16.	A picture of a solid is shown below.				
	What is the name of the solid? Answer: Cylinder	The solid shown has two identical circular faces and a curved surface. The solid is a cylinder or better called a right, circular cylinder.			
17.	A net of a solid is shown below. What is the name of the solid formed when the net is folded? Answer: Triangular based pyramid	$\begin{array}{c} X \\ A \\ Base \\ Y \\ C \\ C \\ C \\ C \\ Face \\ Face \\ Face \\ \end{array}$ ABC is the triangular base. ABX, ACY and BCZ form 3 triangular faces, drawn from the base. When folded, X, Y and Z will meet at the apex. A triangular based pyramid is formed. $\begin{array}{c} A \\ K \\$			



No.	TEST ITEMS	WORKING COLUMN	<b>Do</b> 1	Not Hei		te
			KC	A	٩T	PS
18.	The diagram below is a rectangle. The points B, D, F and H are midpoints of its sides. $A \xrightarrow{B} \xrightarrow{C} D$ $G \xrightarrow{F} \xrightarrow{E}$ Name ONE line of symmetry of the rectangle. Answer: BF	$A \xrightarrow{B} C$ $H \xrightarrow{C} D$ $G \xrightarrow{F} E$ BF is one of the lines of symmetry. It is better called a line of reflective symmetry. (HD is also one such line).	C X	S		
19.	The incomplete bar graph shows the number of marbles owned by 3 of 4 boys in a club.	From the bar graph we can read off that: Sam owns 6 marbles Sid owns 11 marbles Roy owns 8 marbles These three boys own a total of 6 + 11 + 8 = 25 marbles The difference between the total owned by all four boys and the amount owned by Sam, Sid and Roy, will be the number of marbles owned by Tim. Hence, Tim owns $30 - 25 = 5$ marbles				
20.	The bowler obtained the following number of wickets in 9 matches: 3, 1, 4, 6, 4, 2, 4, 1, 3 What is the MODAL number of wickets? Answer: 4	The mode is the item that occurs most often or frequently in any set of data values. By observation of the data, we note that the number 4 occurred three times (3). All other scores had frequencies lower than 3. Hence, the modal number of wickets is 4.				



## Section II

No.	TEST ITEMS	WORKING COLUMN			t Wri ere	te
			KC	-	AT	PS
21.	There are 60 donuts in a glass case. Eighteen of them are chocolate coated. What percentage of donuts is NOT chocolate coated?	The number of donuts in the case = $60$ The number of donuts that are chocolate coated = $18$ The number that are not chocolate coated				
		= 60 - 18 = 42				
	Answer: 70%	The fraction of the donuts that are not chocolate coated is $\frac{42}{60}$ .				
		To express this as a percent, we multiply by $100\%$ which is equivalent to one whole.				
		$=\frac{42}{60} \times 100\% = 70\%$				
22.	If 75% of a class of 32 students are present, how many students are absent from the class?	The number of students in the class = $32$ The percentage of students present = $75\%$ The percentage of students absent = $(100 - 75)\%$				
	Answer: 8 students	= $25\%$ The number of students absent = $25\%$ of $32$				
	592	$=\frac{25}{100} \times 32$ $= 8$				
	ANN. CO	OR The number of students present = 75 % of the total of 32 $= \frac{75}{100} \times 32$ $= 24$				
		The number of students absent = The total number of students in class – the number of students present = 32 - 24 = 8				



No.	TEST ITEMS	WORKING COLUMN	-	Not Wi Here	ite
No. 23.	TEST ITEMSThree mixed numbers from the set below will produce a WHOLE number when added. $3\frac{1}{2}$ $1\frac{1}{8}$ $2\frac{7}{12}$ $4\frac{3}{8}$ What are the THREE numbers?Answer: $3\frac{1}{2}$ , $1\frac{1}{8}$ and $4\frac{3}{8}$	WORKING COLUMNThree of the numbers, $3\frac{1}{2}$ , $1\frac{1}{8}$ , $2\frac{7}{12}$ and $4\frac{3}{8}$ total a whole number.Consider the fractional part of each of the four numbers to see which three will total a whole number. $\frac{1}{2}$ , $\frac{1}{8}$ , $\frac{7}{12}$ and $\frac{3}{8}$ We can deduce that the sum of the second and fourth fraction is one half, since $\frac{3}{8} + \frac{1}{8} = \frac{4}{8} = \frac{1}{2}$ But the fractional part of the first is also $\frac{1}{2}$ So $\frac{1}{2} + \frac{1}{8} + \frac{3}{8} = 1$ It follows that the three fractions that produce a whole number, when added are the first, second and fourth. These are: $3\frac{1}{2}$ , $1\frac{1}{8}$ and $4\frac{3}{8}$ .We need not consider the whole number part of each of these mixed numbers because when we add them (3+1+4), we are certain to get a whole number.			rite



No.	TEST ITEMS	WORKING COLUMN	Ŀ	ot Wri Iere	
			KC	AT	PS
24.	The same pattern is followed throughout in the sequence below.         1       2       3       5       8       13	1 2 3 5 8 13 We notice the next number in the pattern is larger than the number before. Hence, the next number is obtained by either multiplication or addition. Since the numbers are not multiples of each other we can rule out multiplication. Adding the first and second numbers, 1+2=3 Adding the first and second numbers, 2+3=5 Adding the second and third numbers, 2+3=5 Adding the third and fourth numbers, 3+5=8 Adding the third and fourth numbers, 5+8=13 The next two numbers in the pattern are: 8+13=21 and 13+21=34	5	9	
25.	<ul> <li>Sammy planted 526 heads of lettuce. Don planted 98 more than Sammy and 49 more than Linda.</li> <li>a) How many heads of lettuce did Don plant?</li> <li>Answer: 624</li> <li>b) How many heads of lettuce did Linda plant?</li> <li>Answer: 575</li> <li>c) Calculate the number of heads of lettuce planted ALTOGETHER.</li> <li>Answer: 1725</li> </ul>	<ul> <li>Sammy planted 526 heads of lettuce.</li> <li>a) Don planted 98 more than Sammy Don planted 526 + 98 = 624 heads of lettuce.</li> <li>b) Don planted 49 more than Linda. We can also say that Linda planted 49 less than Don.</li> </ul>			



No.	TEST ITEMS	WORKING COLUMN		ot Wri Here	ite
26.	A school received 25 boxes of pencils. Each box contained 36 pencils. The pencils were distributed EQUALLY among 9 classes. How many pencils did EACH class receive? Answer: 100 pencils	The school received 25 boxes of pencils. Each box has 36 pencils. The total number of pencils received = $25 \times 36$ = 900 pencils The pencils (900) were distributed equally among 9 classes. Each class will receive $\frac{\text{Total number of pencils}}{\text{Total number of classes}} = \frac{900}{9}$ = 100 pencils	КС	AT	PS
27.	Calculate: $7\frac{2}{5}-2\frac{1}{4}$ Answer: $5\frac{3}{20}$	$7\frac{2}{5} - 2\frac{1}{4}$ $= 7 - 2 + \frac{2}{5} - \frac{1}{4}$ $= 5 + \frac{3}{20} - \frac{5}{20}$ $= 5 + \frac{3}{20}$ $= 5\frac{3}{20}$			



No.	TES	ST ITEMS	WORKING COLUMN	 H	ot Wri Iere	
28.	number of EACH correct A, B and C o	Number of Marks for Each Correct Answer	Jessica got 16 items correct in Section A, each earning 1 mark. This gives $16 \times 1 = 16$ marks. Jessica got 8 items correct in Section B, each earning 3 marks. This gives $8 \times 3 = 24$ marks.	KC	AT	PS
	A B C	1 mark 3 marks 5 marks	The total marks earned in both Sections, A and B = 16 + 24 = 40 marks			
	Section A an Section B. How many it correct in S	16 items correct in ad 8 items correct in ems must Jessica get ection C to earn a	To obtain a score of 50, the total marks earned in Sections A, B and C = 50 marks Hence, Jessica must earn 50 - 40 = 10 marks in Section C.			
	score of 50 o Answer: 2 it		But, each item in Section C earns 5 marks. Number of items Jessica must get correct to earn 10 marks in Section C			
		52592	$=\frac{10}{5}$ = 2 (or 2 items @5marks each = 10 marks) Jessica must get 2 items correct in Section C.			
4	A A A A A A A A A A A A A A A A A A A					



No.	TEST ITEMS	WORKING COLUMN		Do	Not He	t Wri ere	ite
				KC		AT	PS
29.	A discount of 15% was given for each cash purchase at a shoe store. How much cash will Derrick pay for a pair of shoes marked at \$600.00?	The marked price for the pair of shoes = \$600 The discount = 15% The discount = $\frac{15}{100} \times $600$ = \$90					
	Answer: \$510.00	Derrick pays =(\$600 - \$90) = \$510	•	Ó			
		OR The discount = 15% Derrick pays (100 – 15)% of the marked price of \$600 for the pair of shoes = $85\%$ of \$600 = $\frac{85}{100} \times $600$ = \$510					
30.	In the diagram below, the area of the shaded triangle is 36 cm <sup>2</sup> .	From the diagram, it can be seen that the area of the shaded triangle (A+B) is half the area of the rectangle (2A+2B). Area of a rectangle = $2 \times \text{Area of triangle}$ = $2 \times 36 \text{ cm}^2$ Area of rectangle = $72 \text{ cm}^2$					



No.	TEST ITEMS	TEST ITEMS WORKING COLUMN		te			
				KC	A	Г	PS
31.	The diagram below shows the distances that David covered in a triathlon.	David covered 600 m by swimming $= \frac{600}{1000} \text{ km} \qquad (1 \text{ km} = 1 \text{ 000 m})$ $= 0.6 \text{ km by swimming}$					
	600 metres 6.5 kilometres 8 kilometres	Then David covered 6.5 km by cycling and 8 km by running. Total distance covered		0			
	How many kilometres did David cover during the entire event?	= (0.6 + 6.5 + 8)  km = 15.1 km					
	Answer: 15.1 km						
32.	<ul> <li>Tony borrowed \$12 000 from a bank at a rate of 8% per annum.</li> <li>a) Calculate the simple interest if he agreed to repay the loan in 2 years.</li> <li>Answer: \$1 920</li> <li>b) How much will Tony have to repay the bank?</li> </ul>	a) Amount borrowed, which is the Principal = \$12000 Rate = 8% per annum Time = 2 years Simple interest = $\frac{\text{Principal} \times \text{Rate} \times \text{Time}}{100}$ = $\frac{\$12000 \times \$ \times 2}{100}$ = $\$1920$ b) Amount to be repaid					
~	Answer: \$13 920	b) Amount to be repaid = Principal + Total Interest = \$12 000 + \$1 920 = \$13 920					

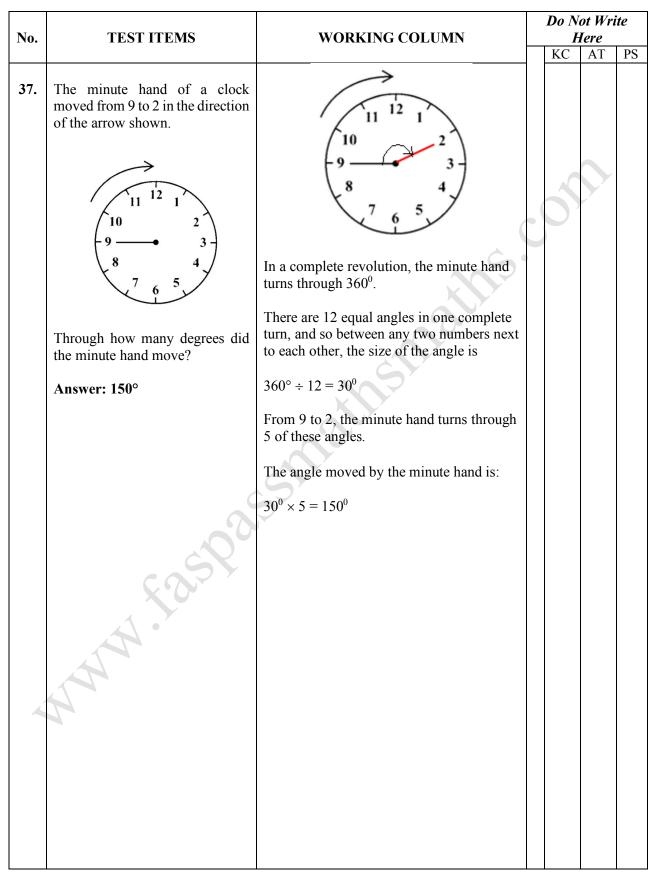


No.	TEST ITEMS	WORKING COLUMN		Do Not Write Here				
1.00			K		AT	PS		
33.	Michael left home at 7:37 a.m. and arrived at school 43 minutes later. He reached school five minutes before the bell rang. At what time did the bell ring? Answer: 8:25 a.m.	The time that Michael left home = 7:37 a.m. The time taken for the journey to school = 43 minutes Arrival time at school is calculated by adding 43 minutes to the time he left home.						
		1Adding the minutes $7:37 + 37$ minutes $\underline{:43}$ $\underline{43}$ minutes $\underline{8:20}$ a.m. $\underline{80}$ minutes = 1 hr 20 minsSince Michael arrived 5 minutes before the bell rang, then the bell rang at $8:20 + \frac{.05}{8:25}$ a.m.Time that the bell rang is 8:25 a.m.						
34.	<ul> <li>Mr. Ben has to be at work at 9:00 a.m. He must get dressed, eat and walk to work. After getting out of bed, it takes him 15 minutes to get dressed, then 20 minutes to eat and a further 35 minutes to walk to work.</li> <li>a) How long does it take Mr. Ben to get dressed, eat and walk to work?</li> <li>Answer: 1 hour 10 minutes</li> <li>b) What is the LATEST time Mr. Ben should get out of bed in order to get to work on time?</li> <li>Answer: 7:50 a.m.</li> </ul>	To eat takes 20 minutes						

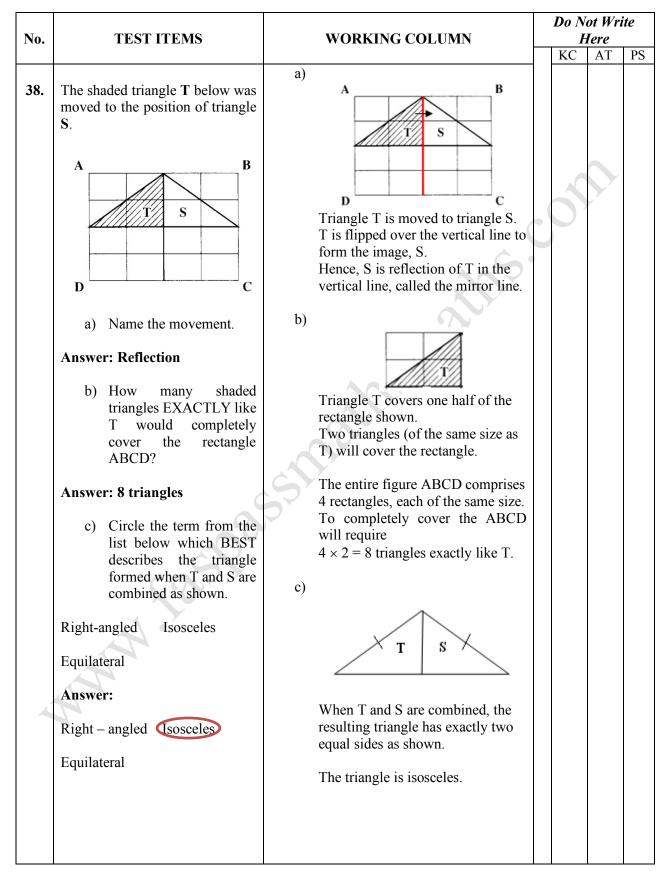


No.	TEST ITEMS	WORKING COLUMN	Ŀ	ot Wri Iere	-
35.	The container shown below is used to fill the fish tank next to it.	$ \begin{array}{c} \hline 1 \\ \hline 1 $	KC	AT	PS
36.	The three angles labeled $x^{\circ}$ in the diagram below are equal in size. $ \begin{array}{c} \hline                                    $				











No.	TEST ITEMS	WORKING COLUMN		ŀ	ot Wri Iere	
39.	The diagram below shows an incomplete shape. Complete the shape so that XY is a line of symmetry. $\begin{array}{c} x \\ \hline x \\ \hline \\ \hline$	XY is a line of symmetry. When the shape is folded along the line XY, the points A and E remain on the line. but the points D, C and B will lie on the opposite side of XY Point D will lie 2 units from XY Points C will lie 1 unit from XY Points B will lie 1 unit from XY The completed figure is shown.	КС АТ (, ut			PS
40.	The pictograph shows the first choice of sports for boys in Standard 5. $\underbrace{\frac{\text{Volleyball}}{\text{Football}} \bigcirc \bigcirc$	Number of boys who chose volleyball as their 1 <sup>st</sup> choice = $10+10+10+10+5=45$ boys Number of boys who chose football as their 1 <sup>st</sup> choice = $10+10+10+10+10+5=55$ boys Number of boys who chose cricket as their 1 <sup>st</sup> choice = $10+10+10+10+10+10+5=65$ boys Total number of boys who indicated their choice = $45+55+65=165$ boys <b>OR</b> We could add all the pictures to get $4\frac{1}{2} + 5\frac{1}{2} + 6\frac{1}{2} = 16\frac{1}{2}$ Each picture represents 10 boys and so the number of boys = $16\frac{1}{2} \times 10 = 165$ .				



## Section III

No.	TEST ITEMS	TEST ITEMS WORKING COLUMN			Do Not Write Here					
			K	KC	AT	PS				
41.	At a school fair, 30% of the pies sold had cheese filling, 25% had	a) Percentage of pies with cheese filling = $30\%$								
	beef filling and the remaining 90 pies had potato filling.	Percentage of pies with beef filling $= 25\%$								
	a) What percentage of pies had potato filling?	This total is $30\% + 25\% = 55\%$ Remaining percentage of pies = 100% - 55%	-		7					
	Answer: 45%	= 45% Hence the percentage of pies with potato filling $= 45\%$								
	b) How many pies were sold at the fair?	b) The number of pies sold is regarded as the whole and equal to 100%								
	Answer: 200 pies	The 90 potato pies represents 45% of the total number of pies.								
	c) How many MORE cheese pies than beef pies were sold at the fair?	45% of the pies = 90 1% of the pies = $90 \div 45 = 2$ 100% of the pies = $2 \times 100 = 200$								
	Answer: 10 more pies	Therefore, the total number of pies is 200								
		c) Cheese pies = $30\%$ Beef pies = $25\%$								
	2	Number of cheese pies = $\frac{30}{100} \times 200 = 60$								
	SY	Number of beef pies = $\frac{25}{100} \times 200 = 50$ There are more cheese pies that beef pies.								
	X.O.	The difference is 60 - 50 = 10								
	A.	Hence, there are 10 more cheese pies than beef pies that were sold at the fair.								
		OR								
4		The percentage difference between the number of cheese pies and beef pies $= 30\% - 25\% = 5\%$ 5% of 200								
		$=\frac{5}{100} \times 200 = 10$ pies								
		They sold 10 more cheese pies than they sold beef pies.								



No.	TEST ITEMS WORKING COLUMN					Do Not Write Here				
				KC	AT	PS				
42.	<ul> <li>The pupils in Standard Five are seated on benches which can seat either 4 pupils (four-seaters) or 3 pupils (three-seaters). Five four-seaters and fifteen three-seaters are available.</li> <li>a) What is the LARGEST number of pupils that can be seated if ONLY the four-seaters are used?</li> <li>Answer: 20 pupils</li> <li>b) On Tuesday, 38 pupils are to be seated and ALL the four-seaters MUST be used. What is the SMALLEST number of three-seaters that are needed?</li> <li>Answer: 6 three-seaters</li> <li>c) On Thursday, 48 pupils are to be seated. How many of EACH type of benches are needed so that ALL seats are occupied and BOTH types of benches are used?</li> <li>Answer: 3 four-seaters and 12 three-seaters</li> </ul>	<ul> <li>4 pupils sit on four-seaters. There are 5 four-seaters available. If only the four-seaters are used then the largest number of pupils that can be seated = 5 × 4 = 20 pupils.</li> <li>a) On Tuesday 38 pupils are seated and all four-seaters are used. Therefore, 20 pupils were seated on four-seaters and 38 - 20 = 18 pupils remain to be seated on the three-seaters. The number of three-seaters required = 18 ÷ 3 = 6 The smallest number of three-seaters required is 6.</li> <li>b) On Thursday 48 pupils are to be seated. All the seats on a bench are to be filled.</li> <li><b>Testing possible options</b></li> <li>1. If 5 of the four-seater benches are filled, this seats 5 × 4 = 20 pupils. Then the remaining 48 - 20 = 28 pupils cannot completely fill the three-seater benches since 28 is <b>NOT</b> divisible by 3.</li> <li>2. If 4 of four-seaters benches are filled, this seats 4 × 4 = 16 pupils. Then the remaining 48 - 16 = 32 pupils cannot completely fill the three-seater benches since 32 is <b>NOT</b> divisible by 3.</li> <li>3. If 3 of four-seater benches are filled, this seats 5 × 4 = 20 pupils. Then the remaining 48 - 12 = 36 pupils cannot completely fill the three-seater benches since 32 is <b>NOT</b> divisible by 3.</li> <li>3. If 3 of four-seater benches are filled, this seat 3 × 4 = pupils. Then the remaining 48 - 12 = 36 pupils can fill all the seats of the three-seater benches since 36 is divisible by 3.</li> <li>3. If 3 of four-seater benches are filled, this seat 3 × 4 = pupils. Then the remaining 48 - 12 = 36 pupils can fill all the seats of the three-seater benches since 36 is divisible by 3.</li> <li>3. If 3 of four-seater benches are filled, this seat 3 × 4 = pupils. Then the remaining 48 - 12 = 36 pupils can fill all the seats of the three-seater benches since 36 is divisible by 3.</li> </ul>		5						

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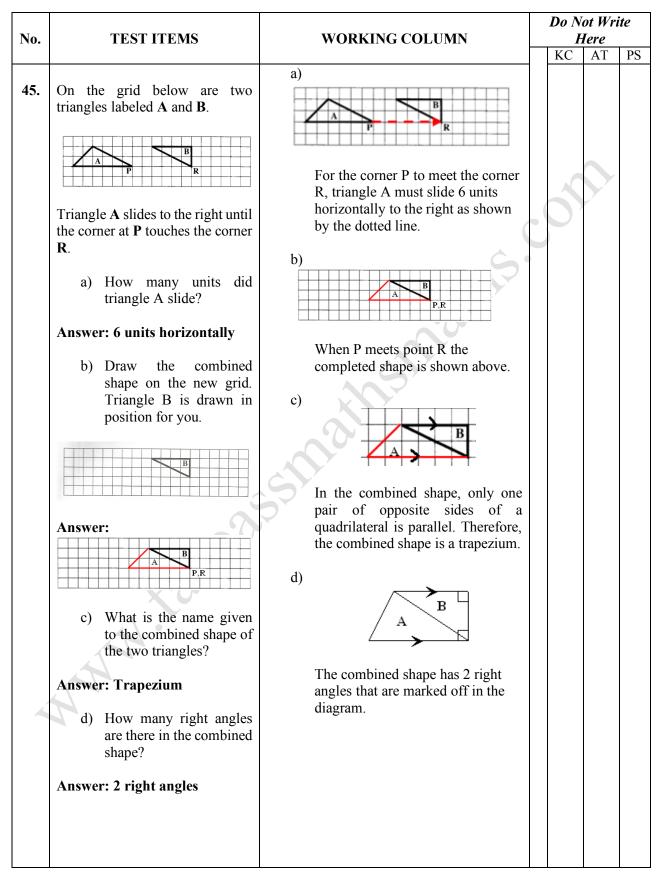


					Do Not Write						
No.	TEST ITEMS	WORKING COLUMN			lere	Ъĉ					
				KC	AT	PS					
43.	<ul> <li>Daniel is making tickets for his drama club from sheets of bristol board measuring 60 cm by 45 cm.</li> <li>a) Calculate the area of ONE sheet of bristol board.</li> <li>Answer: 2700 cm<sup>2</sup></li> <li>b) What is the LARGEST number of tickets measuring 9 cm by 3 cm</li> </ul>	a) $ \begin{array}{c} 60 \text{ cm} \\ \hline \text{Rectangular} \\ \text{Sheet} \end{array} 45 \text{ cm} \\ 45 \text{ cm} \\ 45 \text{ cm} \\ 60 \times 45 \text{ cm}^2 \\ = 2700 \text{ cm}^2 \\ \end{array} $ b) Each ticket measures 9 cm by 3 cm.		5	9						
	that Daniel can make from ONE sheet of bristol board?	Area of one ticket $= 9cm \times 3cm = 27cm^{2}$ Maximum number of tickets $= \frac{Area \ of \ bristol \ board}{Area \ of \ one \ ticket}$									
	Answer: 100 tickets	2700									
	c) A ticket costs \$10.00. Daniel collected \$5000.00 when all the tickets were sold. How many sheets of bristol board were used?	$= \frac{2700}{27} = 100$ In order to avoid wastage, and get the maximum to fit, he must place 20 tickets along the length and 5 along the width arranged as shown. 20 tickets x 3cm = 60 cm									
	Answer: 5 sheets	5 tickets x 9 cm =45 cm									
	A A A	c) Daniel collected \$5000 on the sale of tickets costing \$10 each. Number of tickets sold $= \frac{5000}{10} = 500 \text{ tickets}$									
		100 tickets can be made from one sheet of bristol board									
		500 tickets will require $500 \div 100 = 5$ sheets of bristol board.									



No.	TEST ITEMS		WORKI	NG COLUM	1N	Do Not Write Here
						KC AT PS
44.	The diagrams below show the cost of a slice of pizza, a scoop of ice cream and a drink.	=	of 3 slices = \$8.00 × 3 = \$24.00	of pizza at S	\$8.00 each	
	58.00 per slice \$5.00 per scoop \$4.00	= C \$ =	\$4.00			.019
	<ul> <li>a) Mark has 3 slices of pizza, 1 drink and 2 scoops of ice cream. Calculate the cost of his meal.</li> </ul>	T = =	The total co = \$24.00 + = \$38.00	ost of these i \$4.00 + \$10	.00	
	Answer: \$38.00			note Sandy	wants	
	AIISWEI': 930.UU		0 change. andy wou		bend exactly	
	b) Sandy wishes to get exactly \$20.00 in change			20.00 = \$30.0		
	from a \$50.00 note after			mbinations		
	purchasing a meal. Suggest a possible combination of the			st exactly \$3 ides all the i		
	THREE items that she	5				
	can buy.	Item	Unit Price	Quantity	Total	
	Answer: A possible combination	Pizza	\$8.00	2	\$16.00	
		Ice	\$5.00	2	\$10.00	
	2         Slices of pizza         \$16.00           2         Scoops of ice         \$10.00	cream Drink	\$4.00	1	\$4.00	
	cream	Total	φ1.00	1	\$30.00	
	1 Drink \$4.00					
	Total <b>\$30.00</b>	C	)R			
	A	Item	Unit Price	Quantity	Total	
1		Pizza	\$8.00	1	\$8.00	
	1	Ice	\$5.00	2	\$10.00	
		cream				
		Drink	\$4.00	3	\$12.00	
		Total			\$30.00	







No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here KC AT PS
46.	Jeff is playing a game in which he scores points by spinning a pinwheel similar to the one shown below. It is possible to score 1, 2, 3 and 4 points. Jeff spins the pinwheel twenty times and records his scores in the tally chart below. The tally chart is incomplete. <u>Points</u> Tally Frequency Total 1 1 1 1 1 2 14 14 19 0 3 9 36 a) Complete the tally chart above by filling in the missing information. b) What is the modal point scored? Answer: 4 c) How many points did Jeff score for the twenty spins. d) Calculate the mean number of points Jeff scored for the twenty spins. Answer: 3 points per spin	<ul> <li>a) Looking at the frequency column, the total adds up to 1+3+9=13. We know that John made 20 spins on the pinwheel, so he must have a frequency of 20 - 13 = 7 in row 2. The tally marks represent the frequencies so we must also insert 7 tally marks in row 2 in the tally column.</li> <li> Points Tally Frequency Total points 1 1 1 1 2 #1 7 14 3 9 36 </li> <li> In row 4, in the tally column, we next insert tally marks to represent a frequency of 9. </li> <li> b) The modal point scored is '4' since it has the highest frequency of 9. </li> <li> c) From the 20 spins, Jeff would total (1 + 14 + 9 + 36) = 60 points </li> <li> d) Mean number of points from the 20 spins = Total points scored </li> <li> = Total points scored Total number of spins = 60 points </li> <li> = 3 points per spin </li> </ul>	