

SEA MATHS 2013

SECTION 1

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here				
			KC	AT	PS		
1.	Write in figures: Nine hundred and five thousand and twelve. Answer: 905 012	Nine hundred and five thousand = $905\ 000 +$ Twelve = 12 Total = $905\ 012$	5				
2.	SUBTRACT:	$\int_{1}^{14} f^{10} 9$					
	1509	- 846					
	- 846	663					
	Answer: 663						
3.	Express 25% as a fraction in its LOWEST terms.	25 percent OR 25 per hundred OR 25 hundredths = $\frac{25}{100}$					
	Answer: $\frac{1}{4}$	$\frac{25 \div 25}{100 \div 25} = \frac{1}{4}$					
4.	Shade $\frac{2}{5}$ of the shape below.	The shape is large rectangle divided into 10 equal smaller rectangles. 1 whole = 10 equal parts $\frac{2}{5}$ of the whole = $\frac{2}{5}$ of $10 = \frac{2}{5} \times 10 = 4$ If we shade any four rectangles, then $\frac{2}{5}$ of the shape will be shaded. For example: OR					



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5.	MULTIPLY: 6.03 × 0.04 Answer: 0.2412	$6.03 = 6\frac{3}{100} = \frac{603}{100}$ $0.04 = \frac{4}{100}$ $6.03 \times 0.04 = \frac{603}{100} \times \frac{4}{100}$ $= \frac{603 \times 4}{100 \times 100} = \frac{2412}{10\ 000} = 0.2412$			
6.	Write the number 263 to the NEAREST hundred. Answer: 300	Since we are rounding to the nearest hundred we do not want any digits whose place values are lower than hundreds in our answer. Hundreds Tens 2 6 3 More than 5 Our decision to round up to 300 or round down to 200 depends on the value of the tens digit. This digit, 6, is more than 5. Therefore, we round up by adding 100 to 200 to obtain 300. Note : If the tens digit was less than 5, we would round down to 200.			
7.	Complete the sequence below by filling in the missing fraction in the box. $\frac{1}{3}, \frac{3}{6}, \frac{5}{9}, \frac{7}{12}$	$\frac{1}{3}, \frac{3}{6}, -, \frac{7}{12}$ Consider the numerators , 1, 3, ?, 7. Each number is 2 more than the number before. So, the missing number is 5. Consider the denominators : 3, 6, ?, 12 Each number is 3 more than the number before. So, the missing number is 9. Hence, the missing fraction is: $\frac{5}{9}$			



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No. 8.	TEST ITEMS A netball team played 16 games. The team lost 3 games, drew 1 and won the others. What percentage of games did they win? Answer: 75%	WORKING COLUMN The number of games played = 16 The number of games lost = 3 The number of games drawn = 1 The remainder of the games was won. Therefore, the number of games that was won = $16 - (3 + 1) = 16 - 4 = 12$ The percentage of the games that was won = $\frac{\text{Number of games won}}{\text{Number of games played}} \times 100$ = $\frac{12}{16} \times 100$			He		PS
9.	Amy has the coins shown in the diagram below.	= 75% The coins shown in the diagram consists of 3 of 25¢, 3 of 10¢ and 2 of 5¢. The value of 3 of 25¢ coins					
	25 10 25 cents cents cents 5 10 cents 10 25 5 cents cents 5	$= 25 \notin \times 3 = 75 \notin$ The value of 3 of 10¢ coins $= 10 \notin \times 3 = 30 \notin$ The value of 2 of 5¢ coins $= 5 \notin \times 2 = 10 \notin$ Hence, the total value of the coins listed in the diagram =					
	What is the TOTAL value of all the coins? Answer: \$1.15	$75 \notin$ $30 \notin +$ $\frac{10 \notin}{115 \notin}$ $115 \notin = \$1.15$					
10.	5.08 kilometres =metres Answer 5.08 kilometres = 5 080 metres	1 kilometre = 1000 metres Therefore, 5.08 kilometres, expressed in metres, is = 5.08×1000 metres = 5 080 metres					



No.	TEST ITEMS	WORKING COLUMN		H	t Wri ere	
11.	Allan sets out to run three laps without stopping. He starts at 10:15 a.m. and each lap takes 15 minutes. At what time does he finish? Answer: 11:00 a.m.	Each lap takes 15 minutes. Therefore 3 laps will take a total of $15 \times 3 = 45$ minutes The start time = 10:15 a.m. Therefore, the end time will be $10:15 + \frac{00:45}{11:00}$ Allan finishes the laps at 11:00 a.m.	KC		AT	PS
12.	A bag of flour weighs 4.1 kg and a bag of corn meal weighs 3985 g. By how much is one bag heavier than the other? Answer: 115 g	The weight of the bag of flour = 4.1 kg = 4.1×1000 g (1 kg = 1 000 g) = 4100 g The weight of the bag of corn meal = 3985 g 4100 is a larger number than 3985. The difference in weight between the bag of flour and the bag of corn meal, in g is, 4100 - 3985 = 115 The difference in weight is 115 g, with the bag of flour being the heavier one.				
13.	How many pieces of string 25 cm long can be cut from a piece of string of length 2 m? Answer: 8 pieces	The length of the original piece of string = 2 m Therefore, the length of the original piece of string, in cm, is = 2×100 cm = 200 cm (1 m = 100 cm) The length of each smaller piece of string that is to be cut = 25 cm. Hence, the number of smaller pieces that can be cut from the length is = $\frac{\text{Length of the original piece of string}}{\text{Length of each small piece}}$ = $\frac{200}{25}$ = 8 pieces				



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14.	The clock shown below is 25 minutes slow. $ \begin{array}{c} \hline 1 & 1^2 & 1 \\ 9 & 9 & 9 \\ $	There are 12 equal intervals of 5 minutes each on the clock face. If the clock is 25 minutes slow, then it should be $\frac{25}{5} = 5$ intervals away from where it should have been. The longer hand points to 5 (as shown) and should point to the number that is 5 intervals away from 5, moving clockwise. It will end up at the number 10 (5+5). OR One can start at the number 5 and move in a clockwise direction, counting in five- minute intervals to end at 25 minutes. 6 7 8 9 10 \uparrow \uparrow \uparrow \uparrow \uparrow 5 10 15 20 25m The ending position will be at 10. Note that the shorter or hour hand should be drawn closer to the middle of the two numbers, 2 and 3.	KC	AT	PS
15.	Maya buys some of the apples and plums advertised below. $\underbrace{\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	2 apples cost \$3.00. 4 apples will therefore cost twice as much $2 \times $3.00 = 6.00 The change from \$10.00 will be \$10.00 - \$6.00 = \$4.00 Maya has \$4 to buy plums For \$2, Maya can buy 3 plums For \$4 Maya can buy $3 \times 2 = 6$ plums.			



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16.	Circle the pyramid from the set of solids below.	Pyramids have a point called an apex. The base of a pyramid is not uniform unlike the base of a prism. The first solid is a cube. It has a square base that is uniform throughout its height The second solid is a triangular prism. It has a triangular base that is uniform throughout its height (or length in this case). The third shape a square based pyramid. Its square base is non-uniform as it changes in size, getting smaller and smaller until it reaches its apex. It is therefore the one to be circled.			
17.	The diagram below shows three angles.	The straight line is divided into three angles. The sum of all three angles a straight line is 180°. The sum of the two given angles $= 90^\circ + 36^\circ$ $= 126^\circ$ Therefore, the size of the remaining angle $= 180^\circ - 126^\circ$ $= 54^\circ$ The value of <i>p</i> should only be the numerical value of 54.			



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18.	The diagram below shows the net of a cuboid. $\begin{array}{c} & & & & \\ & & & & \\ & & & & \\ & & & &$	The face Z, shown shaded, is a rectangle 4 cm wide and 10 cm long. 10 cm 4 cm The area of a rectangle = length × width The area of the rectangle, Z = 10×4 = 40 cm^2	KC	AT	PS
19.	The table below shows Adam's cricket scores for five days in a week.Days of the WeekCricket ScoresMonday9Tuesday11Wednesday17Thursday28Friday15	The mean Score = $\frac{\text{Total Score}}{\text{Number of Scores}}$ $= \frac{9+11+17+28+15}{5}$ $= \frac{80}{5}$ $= 16$			

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	SECTION II									
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here KC AT							
21.	Ian doubles a certain number and then adds 6. The result is 24. What is the number? Answer: 9	To find the number we start with the answer and work backwards reversing the operations along the way. To get 24, Ian added 6 to some number. So, $24 = ? + 6$, hence, we subtract 6 from 24 to get $24 - 6 = 18$. Hence, the number was18 before. But Ian doubled (multiplied by 2) some number to get 18 So, $18 = ? \times 2$ Hence, we divide 18 by 2 to get $18 \div 2 = 9$ The original number is therefore, 9.				PS				
22.	Susan had gained 20 points for being neat and tidy. On Friday, she lost 10% of these points for untidy work. How many points did she have left? Answer: 18 point	The number of points gained by Susan = 20 The percentage of the total points lost = 10% Therefore, the number of points lost = $\frac{10}{100} \times 20$ = 2 The number of points Susan now has left = 20 - 2 = 18								
23.	Jack tried to climb 20 m up a coconut tree. For every 5 m he climbed, he fell back 2 m. How far up the tree would he have reached after falling 3 times? Answer: 9 m	Jack falls back 2 m for every 5 m climbed. Hence, after every fall Jack will be 5-2=3 metres further up the tree. 15 m $2^{\text{ m}}$ 3 m After falling from the tree 3 times, Jack would be $3 \times 3 = 9$ metres up the tree. The words slipped or slided is more appropriate than the word fell in this context. Also, the 20m information is irrelevant in the question.								



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24.	Dad had a piece of rope that was $4\frac{3}{4}$ m long. He cut $3\frac{1}{2}$ m of it to make a swing. What is the length of the remaining piece of rope? Answer: $1\frac{1}{10}$ m	The original length of the rope = $4\frac{3}{4}$ m The length of the piece that was cut off = $3\frac{1}{2}$ m The remaining length of rope is: $4\frac{3}{5}-3\frac{1}{2}$ $1\frac{2(3)-5(1)}{10}=1\frac{1}{10}$ m		KC	AT	PS			
25.	Mr. Singh planted a tree. Each week, the tree grew by 0.24 m. How many weeks did the tree take to grow 6 m? Answer: 25 weeks	The growth of the tree per week = 0.24 m To grow a total of 6 m, the time taken would be $\frac{6}{0.24}$ weeks. $\frac{6}{\frac{24}{100}} = \frac{6 \times 100}{24} = 25$ weeks							
26.	Jasmine went to the market and purchased 32 fruits consisting of 6 apples, some oranges and some guavas. She purchased twice as many oranges as apples. She recorded her purchase as shown in the table below. a) Complete the table. Fruit Number Purchased Apple 6 (i) Oranges 12 Guavas 14 Total 32 b) What percentage of the fruits purchased was apples? Answer: $18\frac{3}{4}\%$	a) The total number of fruits bought = 32 The number of apples bought = 6 The number of oranges bought is twice the number of apples. i. The number of oranges bought $2 \times 6 = 12$ ii. The total number of apples and oranges bought = 6 + 12 = 18 Therefore, the number of guavas bought will be 32 - 18 = 14 b) The percentage of apples purchased $= \frac{\text{Number of apples}}{\text{Total number of fruits}} \times 100$ $= \frac{6}{32} \times 100 = \frac{600}{32}$ $= \frac{75}{4}$ $= 18\frac{3}{4}\%$							



No.	TEST ITEMS	WORKING COLUMN		ot Wri Iere AT	ete PS
26.	Four digits are shown below. 3 9 8 7 Using EACH digit only ONCE, write the a) SMALLEST four-digit number	 a) The available digits are: 3 9 8 7 To find the smallest 4-digit number, the digits need to be arranged in ascending order of size, 3, 7, 8 and 9. Therefore, the smallest four-digit number = 3 789 	Ś		
	Answer: 3 789 b) LARGEST four-digit EVEN number Answer: 9 738	 b) For the number to be even, it can only end in 8. Therefore, the 4th or units digit is 8. The remaining three digits 3, 7 and 9 must now be arranged from the largest to the smallest. This is 9, 7 and 3. Therefore, the largest even number ending in 8 will be 9 738 			
28.	The product of two numbers is 9. One of them is $3\frac{3}{5}$. What is the other number? Answer: $2\frac{1}{2}$	The product of the two numbers = 9 One of the numbers is $3\frac{3}{5}$. Therefore, $3\frac{3}{5} \times$ the other number = 9 The other number = $9 \div 3\frac{3}{5}$ = $9 \div \frac{18}{5}$ = $\frac{9}{1} \times \frac{5}{18}$ = $\frac{5}{2}$ or $2\frac{1}{2}$			



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29.	Sam bought 2 snacks at 65¢ each and 1 drink for \$1.25. What is his change from a \$5 note? Answer: \$2.45	The cost of 2 snacks at 65¢ each = $\$0.65 \times 2$ = $\$1.30$ + The cost of 1 drink = $\$1.25$ Total = $\$2.55$ Change received from $\$5.00$ = $\$5.00 - \2.55 \$5.00 $-\frac{\$2.55}{\$2.45}$		KC	AT	PS	
30.	A pumpkin weighing 2.6 kilograms is placed on the scale below.	 a) When the pumpkin is placed on the scale, the pointer should point to the weight of 2.6 kilograms, which is the weight of the pumpkin. There are 5 intervals between each number on the scale. Each interval therefore represents 1/5 kg or 0.2 kg. So, 0.6 kg will be represented by 0.6 ÷ 0.2 = 3 intervals Counting the intervals after 2kg, we have: 2.0, 2.2, 2.4, 2.6, 1 2 3 The pointer should therefore point to 3 intervals after the number 2 on the scale, as shown. b) 1 kg = 1000 g Therefore 2.6 kg = 2.6 × 1000 grams = 2 600 grams The pumpkin weighs 2 600 g. 					



No.	TEST ITEMS	WORKING COLUMN	1	lot Wri Here	
31.	A table and four chairs together cost \$540. The cost of each chair is \$70. Calculate the cost of the table. Answer: \$260	The cost of 1 chair = \$70 The cost of 4 chairs = \$70 × 4 =\$280 The cost of 1 table and 4 chairs = \$540 The cost of 1 table + \$280 = \$540 The cost of 1 table = \$540 - \$280 \$540 -\$280 \$260 The cost of 1 table = \$260	KC	AT	PS
32.	 Tom works for eight hours each day and is paid \$12 per hour. a) If he works for five days, calculate the total amount he is paid. Answer: \$480 b) When Tom works on Saturdays, he is paid per hour at 1¹/₂ times the week-day rate. How much is Tom paid per hour on a Saturday? Answer: \$18 	 a) Tom works 8 hours each day. In 5 days, Tom would have worked for 5×8 = 40 hours. Tom's pay = His hourly pay × the number of hours worked = \$12×40 = \$480 b) Tom's hourly pay on Saturday = 1¹/₂×\$12 per hour = \$18 			



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33.	The cost price of a television is \$1200. VAT is calculated at 15% of the cost price. a) Calculate the amount of VAT. Answer: \$180 b) Calculate the TOTAL	 a) VAT = 15% of the cost price = 15/100 × \$1200 = \$180 b) Amount a customer will pay for the television = Cost price + VAT = \$1200 + \$180 	
	amount that a customer pays for the television.	= \$1380	
	Answer: \$1380 c) Larry bought one of the	 c) The selling price of \$980 is less than the price paid of \$1380. The loss = Price paid - Selling price =\$1380 - \$980 	
	televisions but later sold it for \$980. Calculate his loss as a percentage of the cost price.	= \$400 Loss as a percentage of the cost price. We must interpret the cost price as Larry's cost price $= \frac{Loss}{Cost Price} \times 100$	
	Answer: $28\frac{68}{69}\%$ if Larry paid VAT	Cost Price = $\frac{\$400}{\$1380} \times 100$	
	Answer: $18\frac{1}{3}\%$	\$1380 = $28\frac{68}{69}\%$	
4	If Larry did not pay VAT	The price of \$1200 is really the 'marked price'. The cost price for the customer is the price plus VAT. However, candidates were told that the cost price was \$1200 and so it may be assumed that Larry did not pay VAT. In such a case, Larry's loss will be: \$1 200 - \$980 = \$220 His loss percent will be: $\frac{$220}{$1200} \times 100\%$ $= 18\frac{1}{3}\%$	

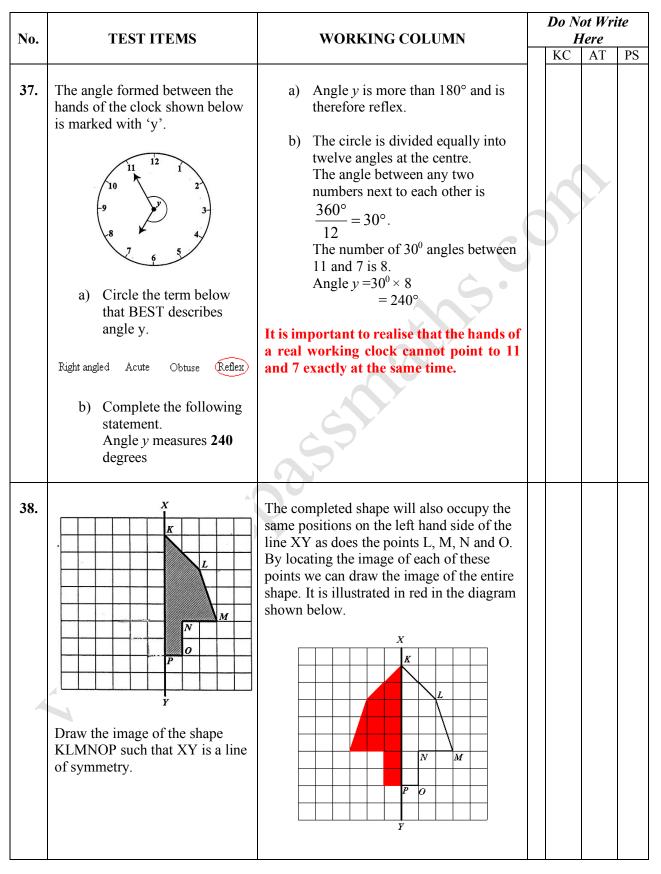


No.	TEST ITEMS	WORKING COLUMN	-		lot Wr Here	ite
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34.	The side of a square is 11 cm. a) What is the area of the	a) Length of side of square = 11 cm Area = Side \times Side = 11 \times 11 = 121 cm ²				
	square?					
	Answer: 121 cm ²	b) Perimeter of Square = Side $\times 4$ = 11 cm $\times 4$				
	b) What is the perimeter of the same square?	= 44 cm				
	Answer: 44 cm	$\begin{array}{c} 11 + 3 \\ \hline \end{array}$				
	 c) Two sides of the square are extended by 3 cm as shown below. 11 3 	11 cm				
	What is the area of the NEW shape?	The new figure is a rectangle which is 11 cm wide and $11 + 3$ = 14 cm long. Area of the rectangle = length ×width				
	Answer: 154 cm ²	$= 14 \text{cm} \times 11 \text{cm}$ $= 154 \text{ cm}^2$				
35.	\$8.25 was shared between Pam and her sister Rita in proportion to their ages. Pam is 12 years old and Rita is 8 years old.	 a) Pam is 12 years old. Rita is 8 years old. Pam's age to Rita's age is 12 to 8. Divide by 4 we get 3 to 2, which is written as 3 : 2 b) The amount of money to be shared 				
	 a) Express their ages as a ratio in its SIMPLEST form. Answer: 3:2 	b) The amount of money to be shared is \$8.25. The total number of shares is considered as $2 + 3 = 5$ Pam receives 3 shares and Rita 2 shares				
	b) Calculate the amount of money each girl receives.	Pam would receive $\frac{3}{3+2} = \frac{3}{5}$ of the total share. $\frac{3}{5} \times \$8.25 = \4.95				
	Answer: Pam receives \$4.95 Rita receives \$3.30	Rita would receive $\frac{2}{3+2} = \frac{2}{5}$ of the share. $\frac{2}{5} \times \$8.25 = \3.30				



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No.	TEST ITEMS WORKING COLUMN		Iere	DC	
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36.	 a) Draw the net of a cube in the space provided below. 	 a) There are several possible nets of a cube that can be drawn. The net should always consist of 6 squares arranged in a manner that can be folded to form a cube. One such net is drawn for the answer. 	6		
	b) Complete the table below. Shape Edges Vertices Faces Cube 12 8 6				
		b) The number of edges in a cube is 12. The completed table is: Shape Edges Vertices Faces Cube 12 8 6			







No.	TEST ITEMS	WORKING COLUMN		ot Wr Here	ite
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39.	The diagram below shows three triangles labelled W, X and Y. The line segments marked with the double strokes () are equal in length. a) Which triangle is i. Right-angled? Answer: W ii. equilateral? Answer: Y b) What type of quadrilateral is the whole figure (W, X and Y combined)? Answer: Rectangle	 a) i) The right-angled triangle is W since one of its angles is a right angle. ii) In triangle Y, all the sides are equal. Triangle Y is therefore equilateral. b) The figure is a rectangle. Note that the proof involves the properties of parallel lines and is beyond the scope of the primary curriculum. 			PS
40.	The pie chart below shows how a budget of \$540 was spent on certain school supplies. Books Pens 126 Y Rulers Pencils How many dollars were spent on pens? Answer: \$90	The circle is divided into 4 sectors. The angles of three of the sectors are 126°, 54° and 120°. The sum of these three angles is $126^{\circ} + 120^{\circ} + 54^{\circ} = 300^{\circ}$ The sum of all the angles at the centre of a circle is 360° Hence, the angle of the sector representing pens is $= 360^{\circ} - 300^{\circ} = 60^{\circ}$ Therefore, the fraction of the pie chart representing the amount spent on pens is $\frac{60^{\circ}}{360^{\circ}} = \frac{1}{6}$. A total of \$540 was spent. The amount of money spent on pens is $\frac{1}{6} \times \$540 = \90			

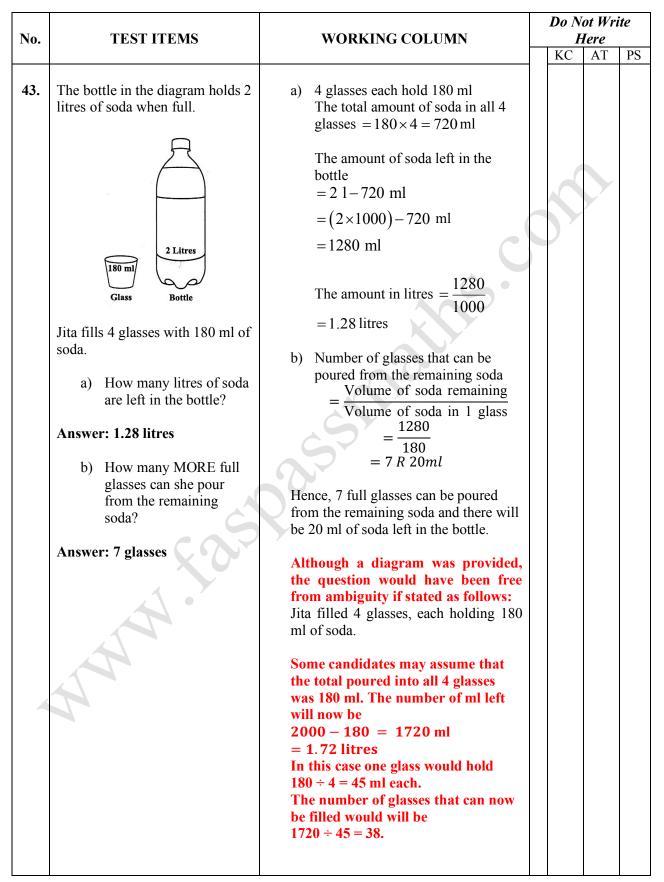
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	SECTION III					
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here KC AT PS			
41.	Mr. Green bought a box of mangoes. 60% were ripe, 25% were green and the remainder had to be thrown away. The box contained 300 mangoes.	a) 60% of the total number of mangoes were ripe The number of ripe mangoes $\frac{60}{100} \times 300$ = 180				
	 a) How many mangoes were ripe? Answer: 180 b) How many mangoes had 	 b) 60% were ripe and 25% were green Hence, ripe and green mangoes together total 60% + 25% = 85% 				
	to be thrown away? Answer: 45	The whole consists of 100%. The remainder = $100\% - 85\%$ = 15%				
	c) Mr. Green paid \$60 for the box of mangoes. Calculate the amount of money he lost.	Therefore, 15% of the mangoes were thrown away. The number of mangoes thrown away				
	Answer: \$9	$=\frac{15}{100} \times 300$ = 45				
		c) We may assume that Mr. Green would have lost money because he threw away some mangoes. Since 15% were thrown away, his loss can be 15% of \$60. $= \frac{15}{100} \times 60				
		= \$9 The question did not mention what Mr. Green did with the mangoes. To incur a loss, he must sell the mangoes at a price lower that his cost. Since there is no information on his selling price, we cannot assume that he had a loss.				



No.	TEST ITEMS	WORKING COLUMN		Not Wr Here	ite
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42.	There are 168 students in a school. There are twice as many girls as there are boys.	 a) We can represent the number of students in school as follows: 			
	a) Calculate the number of girls in the school.	There are twice as many girls as there are boys.			
	Answer: 112	Girls Girls Boys			
	 b) The students are to be divided into 7 classes so that each class has the same number of girls and the same number of boys. Calculate the number of girls and the number of boys in EACH class. Answer: 16 girls 8 boys	$\frac{2}{3} \text{ of the school's population are} girls, so the number of girls is} \frac{2}{3} \times 168 = 112 b) 168 students comprise 112 girlsand 168 - 112 = 56 boys.The 112 girls and 56 boys aredivided equally into 7 classes.7 \underline{112} 7 \underline{56}$			
	c) Apples are sold in boxes each containing one dozen. How many boxes will the teacher have to buy so that EACH student receives ONE apple?	 <u>16</u> <u>8</u> Hence each class will have 16 girls and 8 boys. c) Each of 168 students receives 1 apple. Each box has 1 dozen or 12 apples. In each class there are 16 + 8 = 24 			
	Answer: 2 boxes per class OR 14 boxes for the entire school.	students. Number of boxes of apples required per class is $24 \div 12 = 2$ For the entire school, the number of boxes is $7 \times 2 = 14$			
		Part (b) would have been clearer if stated as follows: The boys are equally divided among the 7 classes and the girls are also equally divided among the 7 classes. Also, in part (c), one is unsure as to whether the teacher bought apples for a class of 24 or for the entire school population of 168.			







No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here KC AT PS
44.	The price list in a cafeteria is shown below. Price List Hot dog \$5.50 Drink \$2.25 Apple \$1.75 Sean bought 2 hot dogs, a drink and 2 apples. Sade bought a hot dog, 3 drinks and an apple. a) What is the TOTAL amount spent by Sean and Sade? Answer: \$30.75 b) How much more than Sade did Sean spend? Answer: \$2.75 c) Which item(s) can be bought with the difference in the amount spent by Sean and Sade? Answer: An apple or a drink	a) The cost of Sean's items is: 2 hot dogs: $$5.50 \times 2 = 11.00 1 drink: = $$2.25$ 2 apples: $$1.75 \times 2 = 3.50 The total spent by Sean = $$16.75$ The cost of Sade's items is 1 hot dog = $$5.50$ 3 drinks: $$2.25 \times 3 = 6.75 1 apple: = $$1.75$ The total spent by Sade = $$14.00$ The total spent by both Sean and Sade = $$16.75 + 14.00 \$30.75 b) Sean spent more than Sade. The difference is $$16.75 - 14.00 \$16.75 - \$14.00 \$2.75 c) For \$2.75, either an apple costing \$1.75 or a drink costing \$2.25 can be bought, no other item can be bought.	



