

SECTION I

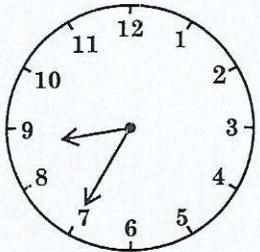
Each question is worth 1 mark. Answer ALL questions.
Show ALL working in the Working Column.

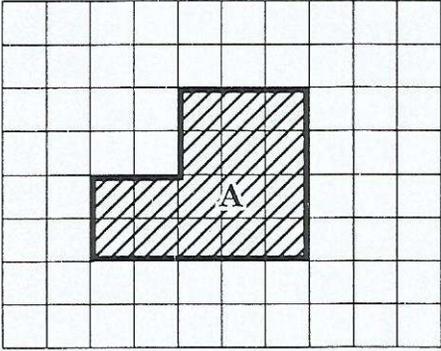
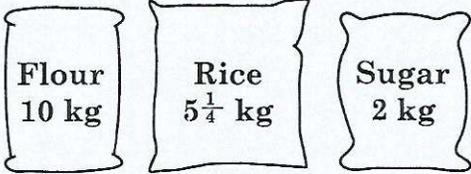
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
1.	Arrange these numbers in ASCENDING order (smallest first). 8372 8273 8237 8327 Answer _____ _____		1.		
2.	Write the numeral that represents six hundred and twelve thousand, nine hundred and three. Answer _____		2.		
3.	Subtract 2.73 from 6.94. Answer _____		3.		
4.	Approximate 26 387 to the nearest HUNDRED. Answer _____		4.		

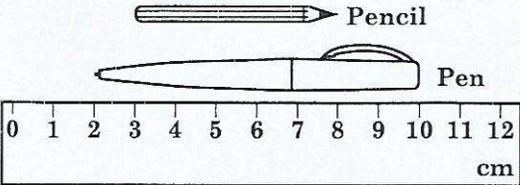
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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
5.	$\sqrt{64} + 7 = 12 + \square$ Answer $\square =$ _____		5.			
6.	Change $3\frac{5}{6}$ to an improper fraction. Answer _____		6.			
7.	Write the next term in the sequence below. 32, 16, 8, _____		7.			
8.	What is 25% of 40? Answer _____		8.			
DO NOT WRITE HERE			KC (2)	AT (5)	PS (1)	TOTAL (8)

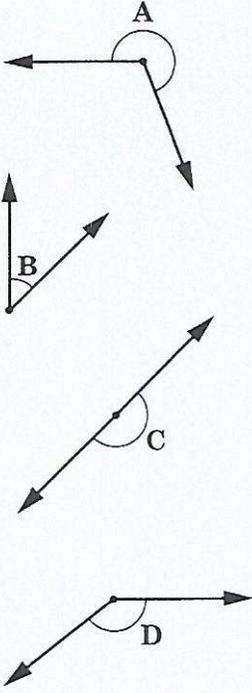
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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
9.	<p>A clock is shown below.</p>  <p>Write the time shown on the clock in digital notation.</p> <p>Answer _____</p>		9.		
10.	<p>2750 g = _____ kg</p>		10.		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
11.	<p>In the diagram below, each small square has an area of 9 cm^2.</p>  <p>Area  = 9 cm^2</p> <p>Calculate the area of Shape A.</p> <p>Answer _____ cm^2</p>		11.		
12.	<p>Mala bought the items shown below.</p>  <p>Calculate the total mass of the items.</p> <p>Answer _____ kg</p>		12.		

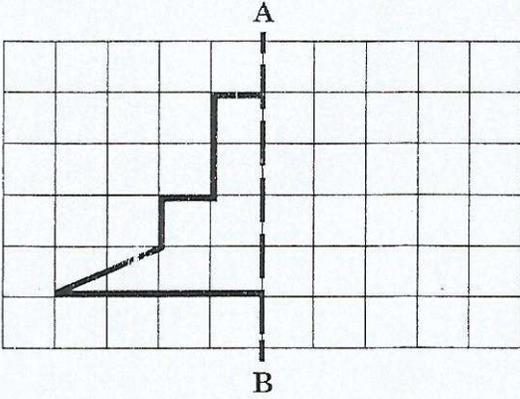
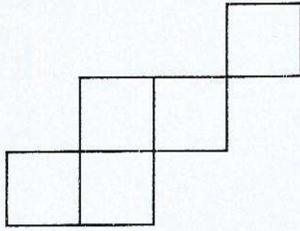
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
13.	<p>The perimeter of a square is 56 cm. What is the length of one side of the square?</p> <p>Answer _____ cm</p>		13.		
14.	<p>Akeem is making juice for a class party. For every 1 litre of water, he uses 100 ml of juice mix.</p> <p>If he uses 4 litres of water, how many ml of juice mix does he use?</p> <p>Answer _____ ml</p>		14.		
15.	<p>The lengths of a pencil and a pen are shown below.</p> <div style="text-align: center;">  </div> <p>What is the difference in length between the pencil and the pen?</p> <p>Answer _____ cm</p>		15.		
DO NOT WRITE HERE			KC (2)	AT (3)	PS (2)
			TOTAL (7)		

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
16.	<p>Which of the angles below is obtuse?</p>  <p>Answer _____</p>				

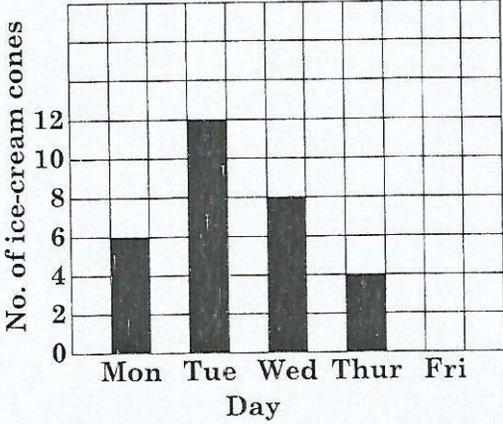
16.

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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
17.	<p>Complete the shape below using AB as the line of symmetry.</p> 		17.			
18.	<p>Complete the drawing below to show the net of a cube.</p> 		18.			
DO NOT WRITE HERE			KC (1)	AT (2)	PS (0)	TOTAL (3)

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here										
			KC	AT	PS								
19.	<p>The table below shows the goals scored by 3 players in a football match. A total of 15 goals were scored.</p> <table border="1"><thead><tr><th>Player</th><th>Number of Goals</th></tr></thead><tbody><tr><td>Keshore</td><td>⊙ ⊙ ⊙</td></tr><tr><td>Lester</td><td>⊙ ⊙</td></tr><tr><td>Richard</td><td>⊙ ⊙ ⊙</td></tr></tbody></table> <p>How many goals does ⊙ represent?</p> <p>Answer _____ goals</p>	Player	Number of Goals	Keshore	⊙ ⊙ ⊙	Lester	⊙ ⊙	Richard	⊙ ⊙ ⊙		19.		
Player	Number of Goals												
Keshore	⊙ ⊙ ⊙												
Lester	⊙ ⊙												
Richard	⊙ ⊙ ⊙												

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here														
			KC	AT	PS												
20.	<p>The incomplete bar graph below shows the number of ice-cream cones sold in 5 days. A total of 40 ice-cream cones were sold.</p> <p>Draw the bar to show the number of ice-cream cones sold on Friday.</p> <p style="text-align: center;">Ice-cream cones sold in five days</p>  <table border="1" style="margin-left: auto; margin-right: auto;"> <caption>Data from Bar Graph</caption> <thead> <tr> <th>Day</th> <th>No. of ice-cream cones</th> </tr> </thead> <tbody> <tr> <td>Mon</td> <td>6</td> </tr> <tr> <td>Tue</td> <td>12</td> </tr> <tr> <td>Wed</td> <td>8</td> </tr> <tr> <td>Thur</td> <td>4</td> </tr> <tr> <td>Fri</td> <td>0</td> </tr> </tbody> </table>	Day	No. of ice-cream cones	Mon	6	Tue	12	Wed	8	Thur	4	Fri	0	20.			
Day	No. of ice-cream cones																
Mon	6																
Tue	12																
Wed	8																
Thur	4																
Fri	0																
DO NOT WRITE HERE			KC (0)	AT (0)	PS (2)	TOTAL (2)											

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SECTION II

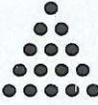
Each question is worth either 2 or 3 marks. Answer ALL questions.
Show ALL working in the Working Column.

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
21.	$3\frac{4}{5} + 2\frac{2}{3}$ Answer _____ (2 marks)		21.		
22.	Two-thirds of a number is 48. What is three-quarters of the number? Answer _____ (2 marks)		22.		
23.	Ryan picked a bucket of plums. He made 13 heaps. Each heap contained 6 plums and had 3 extra plums. How many plums did Ryan pick? Answer _____ plums (2 marks)		23.		

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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
24.	<p>Pictures are numbered in sequence from 1 to 152. Zack is sticking 8 pictures in order on a bristol board to form posters.</p> <p>(a) How many posters can Zack make?</p> <p>Answer _____ posters (1 mark)</p> <p>(b) On which poster will the picture numbered 60 be found?</p> <p>Answer _____ (2 marks)</p>		24.		
25.	<p>Jada is 9 years old. The sum of her parents' ages is the square of Jada's age. Her father is 11 years older than her mother.</p> <p>How old is Jada's mother?</p> <p>Answer _____ years (3 marks)</p>		25.		

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No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>		
			KC	AT	PS
26.	<p>A pattern is formed using dots as shown below.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Figure 1</p> </div> <div style="text-align: center;">  <p>Figure 2</p> </div> <div style="text-align: center;">  <p>Figure 3</p> </div> <div style="text-align: center;">  <p>Figure 4</p> </div> </div> <p>How many dots will form Figure 6?</p> <p>Answer _____ dots (2 marks)</p>		26.		

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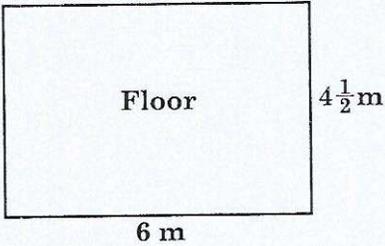
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
27.	<p>Angeni shared a bag of mangoes with her friends. She gave $\frac{1}{5}$ to Jenny and $\frac{1}{3}$ of the remainder to Paul.</p> <p>(a) What fraction of the mangoes did Paul get?</p> <p>Answer _____ (2 marks)</p> <p>(b) What fraction of the mangoes did Angeni give her friends?</p> <p>Answer _____ (1 mark)</p>		27.		

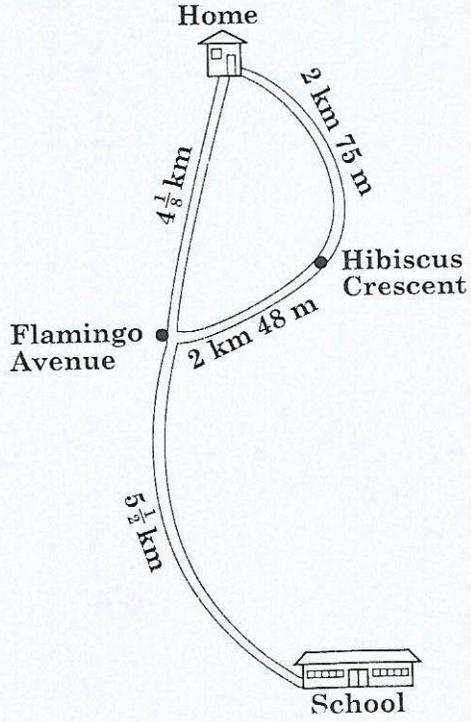
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
28.	<p>There are 300 students in an auditorium. Of these, 210 are boys.</p> <p>(a) What percentage of the students is girls?</p> <p>Answer _____ % (2 marks)</p> <p>(b) If 60% of the students leave the auditorium, how many students are left?</p> <p>Answer _____ students (1 mark)</p>		28.			
DO NOT WRITE HERE			KC (2)	AT (12)	PS (6)	TOTAL (20)

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
29.	<p>Mrs Jones borrows \$10 000 from a bank. She has to repay the loan in 7 years at a rate of 12% interest per annum.</p> <p>(a) Calculate the simple interest Mrs Jones must pay.</p> <p>Answer \$ _____ (2 marks)</p> <p>(b) What is the total amount of money that Mrs Jones must repay?</p> <p>Answer \$ _____ (1 mark)</p>		29.		

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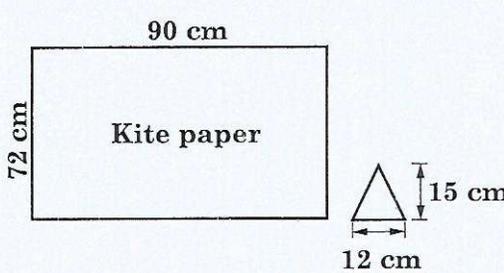
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
30.	<p>The floor shown below is to be carpeted.</p> <div style="text-align: center;"><p style="margin-left: 100px;">Floor</p><p style="margin-left: 100px;">$4\frac{1}{2}$ m</p><p style="margin-left: 100px;">6 m</p></div> <p>(a) Calculate the area of the floor.</p> <p>Answer _____ m² (1 mark)</p> <p>(b) If the carpet is sold at \$20 per m², calculate the cost of the carpet needed to cover the floor completely.</p> <p>Answer \$ _____ (1 mark)</p>		30.		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
31.	<p>The routes from Aaron's home to his school are shown below.</p>  <p>What is the SHORTEST distance from Aaron's home to his school?</p> <p>Answer _____ km _____ m (3 marks)</p>				
			31.		

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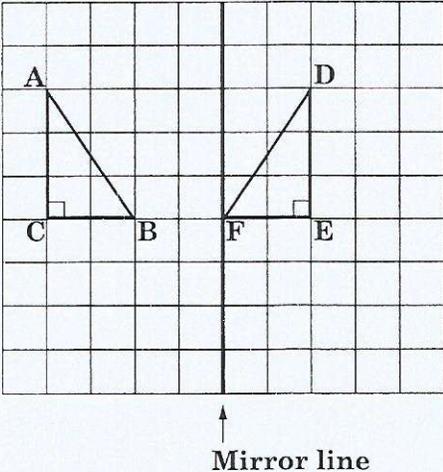
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here						
			KC	AT	PS				
32.	<p>A phone company's rates for prepaid calls are shown below.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Day Rate</td> <td>\$0.40 per minute</td> </tr> <tr> <td>Night Rate</td> <td>\$0.25 per minute</td> </tr> </table> <p>Cindy spoke to her friend for 20 minutes during the day and 50 minutes in the night.</p> <p>What is the total cost of the calls?</p> <p>Answer \$ _____ (2 marks)</p>	Day Rate	\$0.40 per minute	Night Rate	\$0.25 per minute		32.		
Day Rate	\$0.40 per minute								
Night Rate	\$0.25 per minute								
33.	<p>A container and a bottle are shown below.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>$2\frac{3}{4}$ litres</p> </div> <div style="text-align: center;">  <p>250 ml</p> </div> </div> <p>Jamie is filling the container with water using the bottle.</p> <p>How many bottles of water does she need to fill the container completely?</p> <p>Answer _____ bottles (2 marks)</p>		33.						

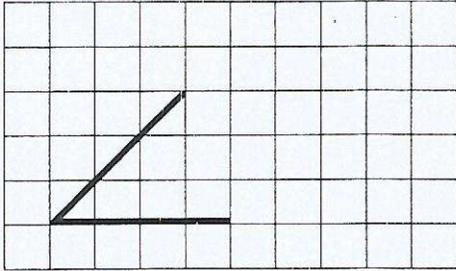
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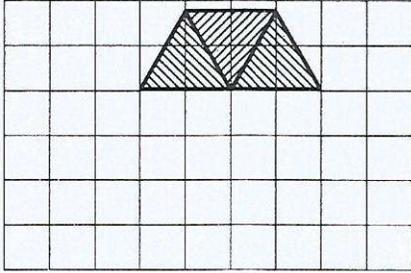
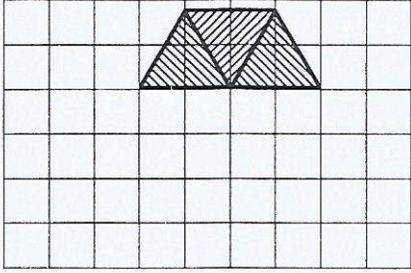
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
34.	<p>The diagram below shows a piece of kite paper that is to be cut into triangular flags. Each flag has a base of 15 cm and a height of 12 cm.</p>  <p>(a) What is the greatest number of flags that can be made from the sheet of kite paper?</p> <p>Answer _____ flags (2 marks)</p> <p>(b) Andrew wants to make 144 flags. How many sheets of kite paper will he need?</p> <p>Answer _____ sheets (1 mark)</p>				
			34.		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
35.	<p>Wendy has 10 kg of flour. She uses 2 kg 675 g to make a batch of bread and 1 kg 970 g to make a batch of cakes.</p> <p>(a) How much flour does Wendy use altogether?</p> <p>Answer _____ kg _____ g (1 mark)</p> <p>(b) How much flour does she have remaining?</p> <p>Answer _____ kg _____ g (1 mark)</p> <p>(c) How many batches of cake can Wendy make with the remaining flour?</p> <p>Answer _____ (1 mark)</p>		35.		
DO NOT WRITE HERE			KC (4)	AT (10)	PS (4)
			TOTAL (18)		

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No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>			
			KC	AT	PS	
37.	<p>The diagram below shows triangle ABC and its image after two movements.</p>  <p>(a) The first movement of triangle ABC is a flip about the mirror line.</p> <p>Describe fully the second movement.</p> <p>Answer _____</p> <p>_____ (2 marks)</p> <p>(b) Triangle DEF makes a quarter turn about Point F in a clockwise direction. On the diagram, mark the new position of E.</p> <p>(1 mark)</p>		37.			

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
38.	<p>There is an incomplete quadrilateral on the grid below.</p>  <p>The quadrilateral has only one pair of parallel lines.</p> <p>Complete the shape. (2 marks)</p>		38.		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
39.	<p>Tia has 3 similar triangles. Each triangle has three equal sides.</p> <p>(a) Name the type of triangle that Tia has.</p> <p>Answer _____ (1 mark)</p> <p>(b) Tia joins the 3 triangles to form the shape shown below.</p>  <p>Draw the line of symmetry on the shape. (1 mark)</p> <p>(c) Tia joins 3 other similar triangles to the shape to form a regular six-sided polygon. Complete the shape below.</p>  <p align="right">(1 mark)</p>				
			38.		
DO NOT WRITE HERE		KC (5)	AT (3)	PS (2)	TOTAL (10)

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>																		
40.	<p>The tally chart below shows the votes obtained by 4 students for the post of class prefect.</p> <table border="1" style="margin: 10px auto; border-collapse: collapse;"> <thead> <tr> <th style="width:15%;">Student</th> <th style="width:20%;">Tally</th> <th style="width:15%;">Frequency</th> </tr> </thead> <tbody> <tr> <td>Karen</td> <td> </td> <td align="center">6</td> </tr> <tr> <td>Atiba</td> <td> </td> <td align="center">4</td> </tr> <tr> <td>Satesh</td> <td></td> <td></td> </tr> <tr> <td>Martin</td> <td> </td> <td align="center">11</td> </tr> </tbody> </table> <p>If 28 students voted, complete the tally and frequency for Satesh.</p> <p align="right">(2 marks)</p>	Student	Tally	Frequency	Karen		6	Atiba		4	Satesh			Martin		11		40.	KC	AT	PS
		Student	Tally	Frequency																	
Karen		6																			
Atiba		4																			
Satesh																					
Martin		11																			
DO NOT WRITE HERE			KC (1)	AT (1)	PS (0)	TOTAL (2)															

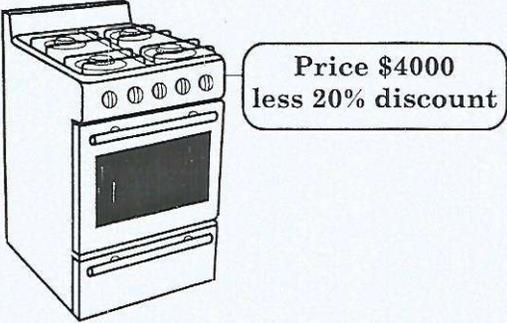
SECTION III

Each question is worth 5 marks. Answer ALL questions.
Show ALL working in the Working Column.

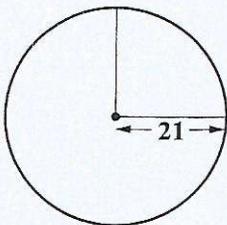
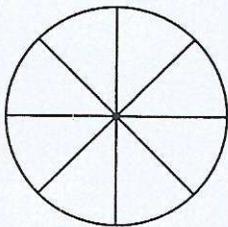
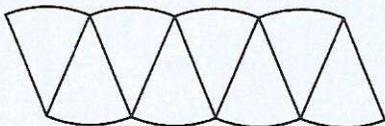
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here														
			KC	AT	PS												
41.	<p>Five runners competed in a race on sports day. The table below shows the times recorded for 4 runners.</p> <table border="1"><thead><tr><th>Runner</th><th>Time (seconds)</th></tr></thead><tbody><tr><td>Pete</td><td>16.5</td></tr><tr><td>Mark</td><td>17.8</td></tr><tr><td>Toro</td><td>16.9</td></tr><tr><td>Sunil</td><td>16.8</td></tr><tr><td>Javed</td><td></td></tr></tbody></table> <p>(a) Calculate the average running time for the FOUR given runners.</p> <p>Answer _____ seconds (2 marks)</p> <p>(b) Javed won the race by 0.3 seconds. What was his winning time?</p> <p>Answer _____ seconds (1 mark)</p> <p>(c) The winning time in last year's race was 16.3 seconds. What is the least amount of time by which Mark must improve to beat last year's winning time?</p> <p>Answer _____ (2 marks)</p>	Runner	Time (seconds)	Pete	16.5	Mark	17.8	Toro	16.9	Sunil	16.8	Javed					
Runner	Time (seconds)																
Pete	16.5																
Mark	17.8																
Toro	16.9																
Sunil	16.8																
Javed																	
			41.														

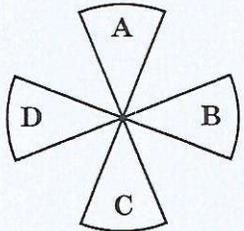
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
42.	<p>There are 450 mangoes and oranges in a fruit stall. There are twice as many mangoes as there are oranges.</p> <p>(a) How many oranges are in the stall?</p> <p>Answer _____ oranges (1 mark)</p> <p>(b) $\frac{2}{3}$ of the oranges are green and the others are ripe.</p> <p>How many oranges are ripe?</p> <p>Answer _____ oranges (2 marks)</p> <p>(c) A box can hold 24 mangoes. How many boxes are needed to pack ALL the mangoes?</p> <p>Answer _____ boxes (2 marks)</p>		42.			
DO NOT WRITE HERE			KC (2)	AT (5)	PS (3)	TOTAL (10)

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
43.	<p>Mrs Brown bought the stove shown below at a discount of 20%.</p>  <p>(a) Calculate the discount in dollars.</p> <p>Answer \$ _____ (1 mark)</p> <p>(b) What was the cost of the stove after the discount?</p> <p>Answer \$ _____ (1 mark)</p> <p>(c) Mrs Brown paid VAT at $12\frac{1}{2}\%$ on the discounted price.</p> <p>How much VAT did she pay?</p> <p>Answer \$ _____ (2 marks)</p> <p>(d) Calculate the final price that Mrs Brown paid for the stove.</p> <p>Answer \$ _____ (1 mark)</p>				
			43.		

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
44.	<p>A circle of radius 21 cm is shown below.</p>  <p>$\pi = \frac{22}{7}$</p> <p>(a) Calculate the circumference of the circle.</p> <p>Answer _____ cm (2 marks)</p> <p>(b) The circle is cut into 8 equal parts as shown below.</p>  <p>The parts are used to form the shape below.</p>  <p>Calculate the perimeter of the shape.</p> <p>Answer _____ cm (3 marks)</p>					
			44.			
DO NOT WRITE HERE			KC (4)	AT (3)	PS (3)	TOTAL (10)

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
45.	<p>The diagram below shows the blades of a fan labelled A, B, C and D.</p>  <p>(a) What fraction of a turn does Blade A make if it turns in a clockwise direction to the position of Blade D?</p> <p>Answer _____ (1 mark)</p> <p>(b) How many $\frac{1}{4}$ turns does Blade B make if it turns in a clockwise direction to the position of Blade D?</p> <p>Answer _____ (1 mark)</p>				

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
	<p>(c) Through how many degrees does Blade C turn in an anticlockwise direction to the position of Blade B?</p> <p>Answer _____ (1 mark)</p> <p>(d) If Blade B travels 200 cm in 1 whole turn, how many $\frac{1}{2}$ turns will it take to make 300 cm?</p> <p>Answer _____ (2 marks)</p>					
			45.			
DO NOT WRITE HERE			KC (1)	AT (3)	PS (1)	TOTAL (5)

No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>																								
46.	<p>The table below shows the marks obtained by 2 students in 5 subjects.</p> <table border="1" data-bbox="334 541 837 1163"> <thead> <tr> <th>SUBJECT</th> <th>YVETTE</th> <th>BARRY</th> </tr> </thead> <tbody> <tr> <td>Maths</td> <td>75</td> <td>63</td> </tr> <tr> <td>Language Arts</td> <td>60</td> <td>74</td> </tr> <tr> <td>Music</td> <td>70</td> <td></td> </tr> <tr> <td>Art</td> <td>80</td> <td>47</td> </tr> <tr> <td>Social Studies</td> <td>55</td> <td>25</td> </tr> <tr> <td>Total</td> <td></td> <td>240</td> </tr> </tbody> </table> <p>(a) Calculate the mean mark obtained by Yvette.</p> <p>Answer _____ (1 mark)</p> <p>(b) How many marks did Barry score in Music?</p> <p>Answer _____ (1 mark)</p>	SUBJECT	YVETTE	BARRY	Maths	75	63	Language Arts	60	74	Music	70		Art	80	47	Social Studies	55	25	Total		240			KC	AT	PS
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	<p>(c) A mean of 55 is required to get a Grade C. How many MORE marks did Barry need in order to get a Grade C?</p> <p>Answer _____ (2 marks)</p> <p>(d) Yvette needed 20 MORE marks to get a Grade B. What is the least amount of marks required to get a Grade B?</p> <p>Answer _____ (1 mark)</p>		46.			
DO NOT WRITE HERE			KC (1)	AT (3)	PS (1)	TOTAL (5)

END OF TEST

IF YOU FINISH BEFORE TIME IS CALLED, CHECK YOUR WORK ON THIS TEST.

