

SECTION I

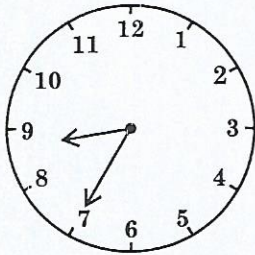
Each question is worth 1 mark. Answer ALL questions.  
Show ALL working in the Working Column.

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

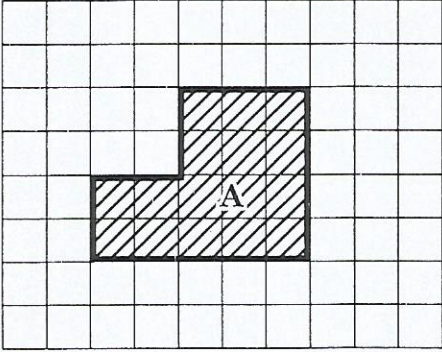


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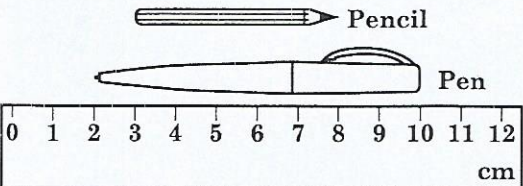
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
5.	$\sqrt{64} + 7 = 12 + \square$  Answer $\square =$ _____		5.			
6.	Change $3\frac{5}{6}$ to an improper fraction.  Answer _____		6.			
7.	Write the next term in the sequence below.  32, 16, 8, _____		7.			
8.	What is 25% of 40?  Answer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

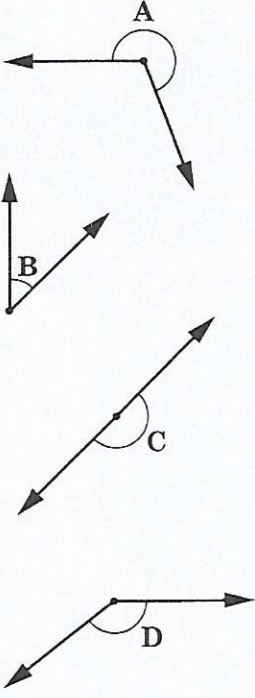
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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
9.	<p>A clock is shown below.</p>  <p>Write the time shown on the clock in digital notation.</p> <p>Answer _____</p>		9.		
10.	<p>2750 g = _____ kg</p>		10.		

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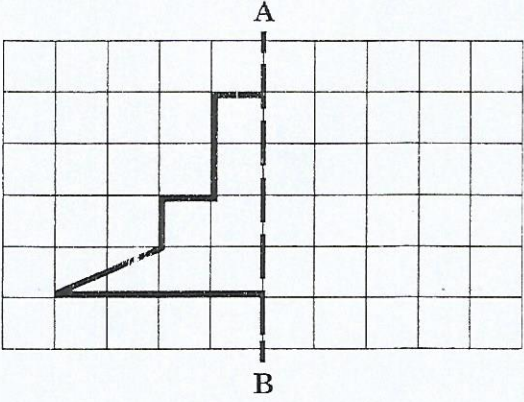
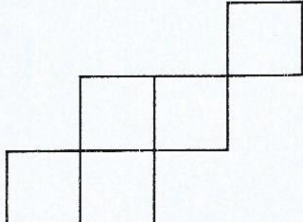
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
11.	<p>In the diagram below, each small square has an area of <math>9 \text{ cm}^2</math>.</p>  <p>Area  = <math>9 \text{ cm}^2</math></p> <p>Calculate the area of Shape A.</p> <p>Answer _____ <math>\text{cm}^2</math></p>		11.		
12.	<p>Mala bought the items shown below.</p>  <p>Calculate the <b>total</b> 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 <b>difference</b> in length between the pencil and the pen?</p> <p>Answer _____ cm</p>		15.		
<b>DO NOT WRITE HERE</b>			<b>KC (2)</b>	<b>AT (3)</b>	<b>PS (2)</b>
			<b>TOTAL (7)</b>		

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.

GO ON TO THE NEXT PAGE

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	⊙ ⊙ ⊙												

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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;"><b>Ice-cream cones sold in five days</b></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>?</td> </tr> </tbody> </table>	Day	No. of ice-cream cones	Mon	6	Tue	12	Wed	8	Thur	4	Fri	?	20.			
Day	No. of ice-cream cones																
Mon	6																
Tue	12																
Wed	8																
Thur	4																
Fri	?																
<b>DO NOT WRITE HERE</b>			<b>KC (0)</b>	<b>AT (0)</b>	<b>PS (2)</b>	<b>TOTAL (2)</b>											

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SECTION II




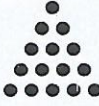
Each question is worth either 2 or 3 marks. Answer ALL questions.  
Show ALL working in the Working Column.

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 <b>(1 mark)</b></p> <p>(b) On which poster will the picture numbered 60 be found?</p> <p>Answer _____ <b>(2 marks)</b></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 <b>(3 marks)</b></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.			

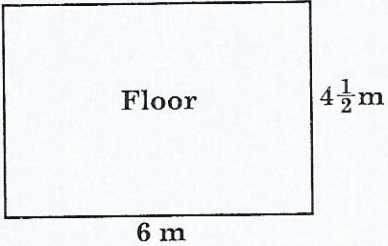
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
27.	<p>Angeni shared a bag of mangoes with her friends. She gave <math>\frac{1}{5}</math> to Jenny and <math>\frac{1}{3}</math> of the remainder to Paul.</p> <p>(a) What fraction of the mangoes did Paul get?</p> <p>Answer _____ <b>(2 marks)</b></p> <p>(b) What fraction of the mangoes did Angeni give her friends?</p> <p>Answer _____ <b>(1 mark)</b></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 _____ % <b>(2 marks)</b></p> <p>(b) If 60% of the students leave the auditorium, how many students are left?</p> <p>Answer _____ students <b>(1 mark)</b></p>		28.			
<b>DO NOT WRITE HERE</b>			<b>KC (2)</b>	<b>AT (12)</b>	<b>PS (6)</b>	<b>TOTAL (20)</b>

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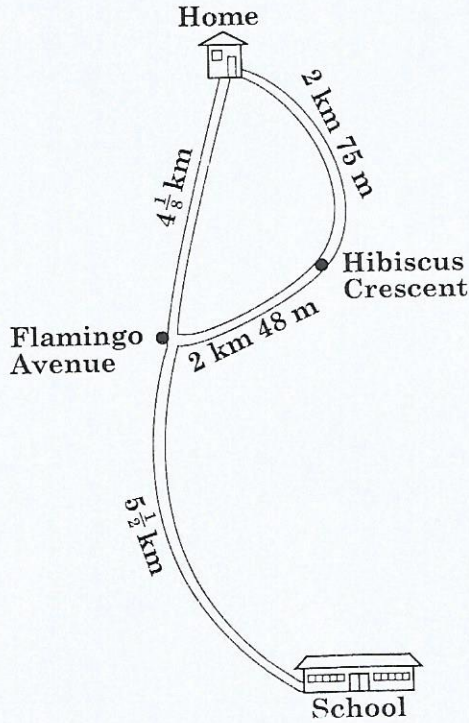
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
29.	<p>Mrs Jones borrows \$10 000 from a bank. She has to repay the loan in 7 years at a rate of 12% interest per annum.</p> <p>(a) Calculate the simple interest Mrs Jones must pay.</p> <p>Answer \$ _____ (2 marks)</p> <p>(b) What is the 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

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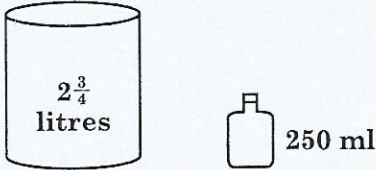
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
30.	<p>The floor shown below is to be carpeted.</p> <div style="text-align: center;"></div> <p>(a) Calculate the area of the floor.</p> <p>Answer _____ m<sup>2</sup> (1 mark)</p> <p>(b) If the carpet is sold at \$20 per m<sup>2</sup>, calculate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

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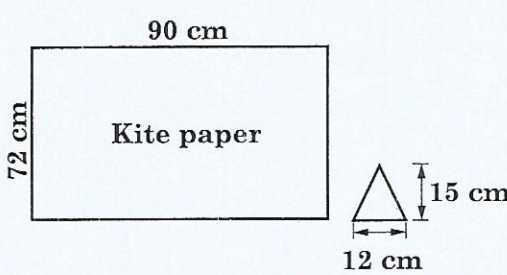


No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
31.	<p>The routes from Aaron's home to his school are shown below.</p>  <p>What is the SHORTEST distance from Aaron's home to his school?</p> <p>Answer _____ km _____ m (3 marks)</p>				
			31.		

GO ON TO THE NEXT PAGE

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 style="padding: 5px;"><b>Day Rate</b></td> <td style="padding: 5px;">\$0.40 per minute</td> </tr> <tr> <td style="padding: 5px;"><b>Night Rate</b></td> <td style="padding: 5px;">\$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 <b>total</b> cost of the calls?</p> <p>Answer \$ _____ (2 marks)</p>	<b>Day Rate</b>	\$0.40 per minute	<b>Night Rate</b>	\$0.25 per minute		32.		
<b>Day Rate</b>	\$0.40 per minute								
<b>Night Rate</b>	\$0.25 per minute								
33.	<p>A container and a bottle are shown below.</p> <div style="text-align: center; margin: 10px 0;">  </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.						

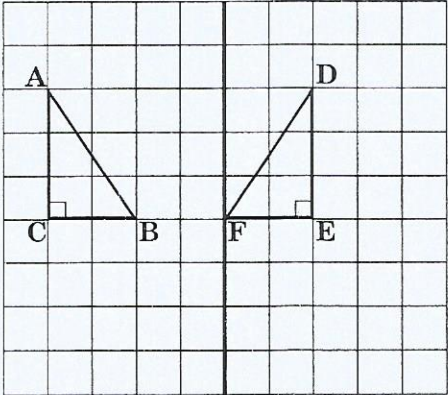
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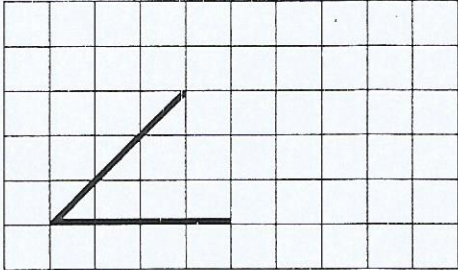
No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>		
			KC	AT	PS
34.	<p>The diagram below shows a piece of kite paper that is to be cut into triangular flags. Each flag has a base of 15 cm and a height of 12 cm.</p>  <p>(a) What is the <b>greatest</b> number of flags that can be made from the sheet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

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
35.	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>(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.			
<b>DO NOT WRITE HERE</b>			<b>KC (4)</b>	<b>AT (10)</b>	<b>PS (4)</b>	<b>TOTAL (18)</b>

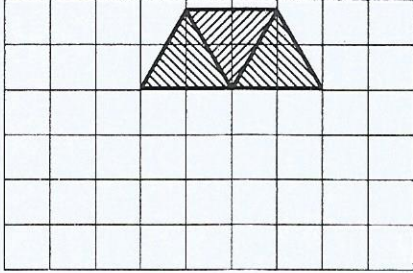
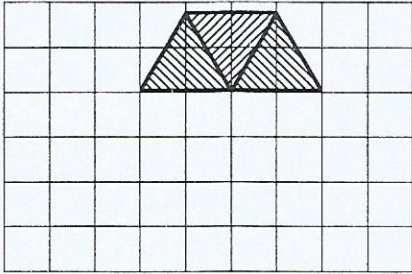
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No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>			
			KC	AT	PS	
37.	<p>The diagram below shows triangle ABC and its image after two movements.</p>  <p style="text-align: center;">↑ Mirror line</p> <p>(a) The first movement of triangle ABC is a flip about the mirror line.</p> <p>Describe fully the second movement.</p> <p>Answer _____</p> <p style="text-align: right;">(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 style="text-align: right;">(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. <b>(2 marks)</b></p>		38.		

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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 _____ <b>(1 mark)</b></p> <p>(b) Tia joins the 3 triangles to form the shape shown below.</p>  <p>Draw the line of symmetry on the shape. <b>(1 mark)</b></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"><b>(1 mark)</b></p>				
			38.		
<b>DO NOT WRITE HERE</b>		<b>KC (5)</b>	<b>AT (3)</b>	<b>PS (2)</b>	<b>TOTAL (10)</b>

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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" data-bbox="282 571 769 835"> <thead> <tr> <th>Student</th> <th>Tally</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>Karen</td> <td>      </td> <td>6</td> </tr> <tr> <td>Atiba</td> <td>    </td> <td>4</td> </tr> <tr> <td>Satesh</td> <td></td> <td></td> </tr> <tr> <td>Martin</td> <td>           </td> <td>11</td> </tr> </tbody> </table> <p>If 28 students voted, complete the tally and frequency for Satesh.</p> <p style="text-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																			
<b>DO NOT WRITE HERE</b>			<b>KC (1)</b>	<b>AT (1)</b>	<b>PS (0)</b>	<b>TOTAL (2)</b>															

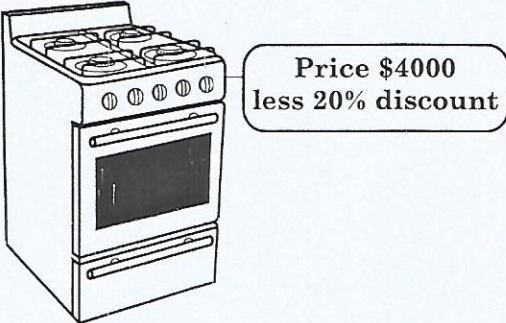
SECTION III

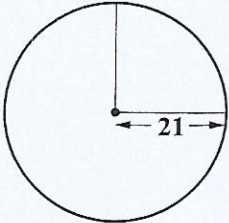
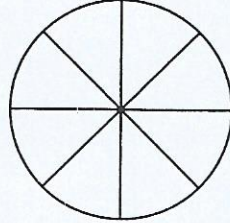
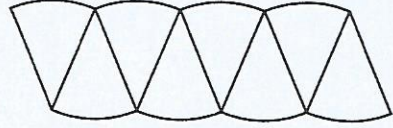
Each question is worth 5 marks. Answer ALL questions.  
Show ALL working in the Working Column.

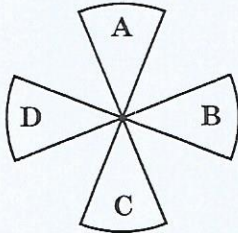
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here														
			KC	AT	PS												
41.	<p>Five runners competed in a race on sports day. The table below shows the times recorded for 4 runners.</p> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>Runner</th> <th>Time (seconds)</th> </tr> </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.														

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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) <math>\frac{2}{3}</math> 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.		
<b>DO NOT WRITE HERE</b>			<b>KC (2)</b>	<b>AT (5)</b>	<b>PS (3)</b>
			<b>TOTAL (10)</b>		

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 \$ _____ <b>(1 mark)</b></p> <p>(b) What was the cost of the stove after the discount?</p> <p>Answer \$ _____ <b>(1 mark)</b></p> <p>(c) Mrs Brown paid VAT at <math>12\frac{1}{2}\%</math> on the discounted price.</p> <p>How much VAT did she pay?</p> <p>Answer \$ _____ <b>(2 marks)</b></p> <p>(d) Calculate the <b>final</b> price that Mrs Brown paid for the stove.</p> <p>Answer \$ _____ <b>(1 mark)</b></p>				
			43.		

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 style="text-align: right;"><math>\pi = \frac{22}{7}</math></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.			
<b>DO NOT WRITE HERE</b>			<b>KC (4)</b>	<b>AT (3)</b>	<b>PS (3)</b>	<b>TOTAL (10)</b>

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 <math>\frac{1}{4}</math> 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 <math>\frac{1}{2}</math> turns will it take to make 300 cm?</p> <p>Answer _____ (2 marks)</p>					
			45.			
<b>DO NOT WRITE HERE</b>			<b>KC (1)</b>	<b>AT (3)</b>	<b>PS (1)</b>	<b>TOTAL (5)</b>

No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>																							
			KC	AT	PS																					
46.	<p>The table below shows the marks obtained by 2 students in 5 subjects.</p> <table border="1" data-bbox="332 537 834 1161"> <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><b>Total</b></td> <td></td> <td><b>240</b></td> </tr> </tbody> </table> <p>(a) Calculate the mean mark obtained by Yvette.</p> <p>Answer _____ <b>(1 mark)</b></p> <p>(b) How many marks did Barry score in Music?</p> <p>Answer _____ <b>(1 mark)</b></p>	SUBJECT	YVETTE	BARRY	Maths	75	63	Language Arts	60	74	Music	70		Art	80	47	Social Studies	55	25	<b>Total</b>		<b>240</b>				
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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
	<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.

