

C A R I B B E A N E X A M I N A T I O N S C O U N C I L

~~No 18025~~

TRINIDAD AND TOBAGO

~~No 18025~~

SECONDARY ENTRANCE ASSESSMENT

MATHEMATICS

75 minutes

**PRIMARY
SCHOOL:** _____

CENTRE NUMBER: _____

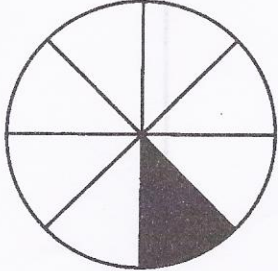
READ THE FOLLOWING INSTRUCTIONS CAREFULLY.

1. This test is divided into **THREE** sections.
2. Make sure that you understand the directions before you start to work on any section.
3. Write **ALL** your answers in this test booklet. Show **ALL** your working in the working column.
4. **DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.**

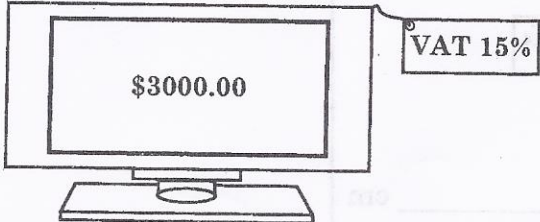
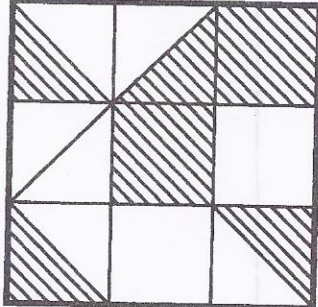
SECTION I

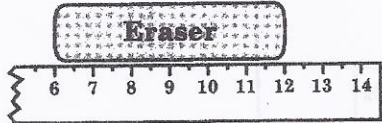
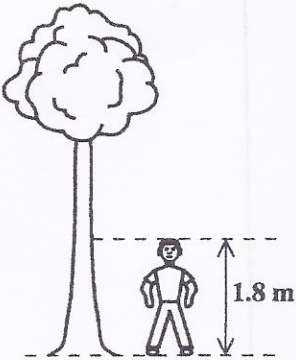
**Answer ALL questions. EACH question is worth 1 mark.
Show ALL working in the Working Column.**

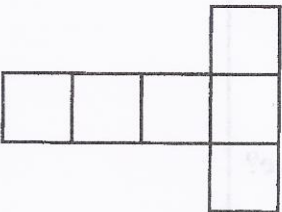

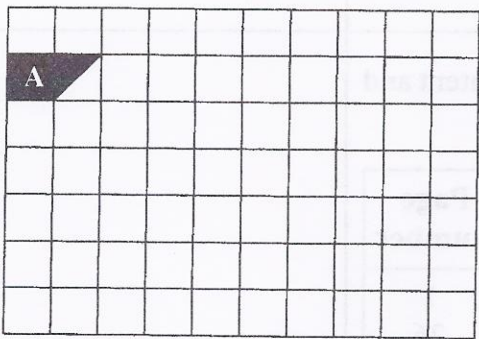
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
1.	Express $\frac{3}{4}$ as a percentage. Answer _____				
2.	Write the numeral which represents $(3 \times 10000) + (5 \times 100) + (7 \times 10) + (2 \times 1)$. Answer _____				
3.	CALCULATE: 587×18 . Answer _____				
4.	Express $\frac{2}{5}$ as a decimal number. Answer _____				

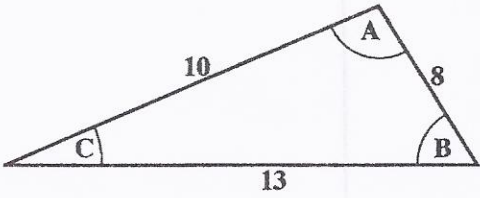
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
5.	<p>A whole pizza is cut into 8 equal slices as shown in the diagram.</p>  <p>How many slices can be cut from $4\frac{1}{2}$ pizzas of the SAME size?</p> <p>Answer _____</p>				
6.	<p>Carla gave her brother 35 stickers. She has 89 stickers left. How many stickers did Carla have at FIRST?</p> <p>Answer _____</p>				
7.	<p>Brian weighs 45.37 kilograms and Sunil weighs 36.5 kilograms. How many kilograms heavier is Brian than Sunil?</p> <p>Answer _____ kg</p>				

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
8.	<p>\square and \triangle represent 2 numbers.</p> <p>If $\square \times \square = 16$</p> <p>and $\square + \triangle = 12$</p> <p>what is the value of \triangle ?</p> <p>Answer _____</p>					
DO NOT WRITE HERE			KC (2)	AT (4)	PS (2)	TOTAL (8)
9.	<p>Amy has the coins shown in the diagram below.</p> <div style="text-align: center;"> </div> <p>The total value of all the coins is \$1.00. What is the value of the unmarked coin?</p> <p>Answer _____</p>					
10.	<p>$2\frac{1}{4}$ kilometres = _____ metres</p>					

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
11.	<p>The television below costs \$3000.00. If VAT is charged at 15% of the cost, how much money will the customer pay in VAT?</p>  <p>Answer \$ _____</p>				
12.	<p>In the figure below EACH square represents 1 cm².</p>  <p>Figure 1</p> <p>The area of the shaded region is</p> <p>Answer _____ cm²</p>				


No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
13.	<p>What is the length of the eraser to the NEAREST cm?</p>  <p>Centimetre rule</p> <p>Answer _____ cm</p>					
14.	<p>Tim left for school at 7:10 a.m. The journey took 1 hour and 20 minutes. At what time did he arrive at school?</p> <p>Answer _____</p>					
15.	<p>The diagram below shows a man standing next to a tree.</p>  <p>The height of the man is 1.8 m. Estimate the height of the tree in metres.</p> <p>Answer _____ m</p>					
DO NOT WRITE HERE			KC (2)	AT (4)	PS (1)	TOTAL (7)


No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
16.	<p>The figure shows the net of a solid.</p>  <p>What is the name of the solid?</p> <p>Answer _____</p>				
17.	 <p>The object A moves in a straight line 6 units to the right. Draw its image on the grid.</p>				

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here																							
			KC	AT	PS																					
18.	 <p>Which is the LARGEST angle in the shape above?</p> <p>Answer _____</p>																									
DO NOT WRITE HERE			KC (1)	AT (1)	PS (1)	TOTAL (3)																				
19.	<p>If the mean of FOUR numbers is 7, what is the SUM of the numbers?</p> <p>Answer _____</p>																									
20.	<p>The following table shows the chapter, content and the page number of a book.</p> <table border="1" data-bbox="293 1318 972 1675"> <thead> <tr> <th>CHAPTER</th> <th>CONTENT</th> <th>Page Number</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Kinds of sharks</td> <td>1</td> </tr> <tr> <td>2</td> <td>The reef</td> <td>26</td> </tr> <tr> <td>3</td> <td>Hunting</td> <td>42</td> </tr> <tr> <td>4</td> <td>My enemies</td> <td>58</td> </tr> <tr> <td>5</td> <td>My friends</td> <td>70</td> </tr> <tr> <td>6</td> <td>My side of the story</td> <td>87</td> </tr> </tbody> </table> <p>How many pages are there in Chapter 3?</p> <p>Answer _____</p>	CHAPTER	CONTENT	Page Number	1	Kinds of sharks	1	2	The reef	26	3	Hunting	42	4	My enemies	58	5	My friends	70	6	My side of the story	87				
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DO NOT WRITE HERE			KC (0)	AT (1)	PS (1)	TOTAL (2)																				

SECTION II

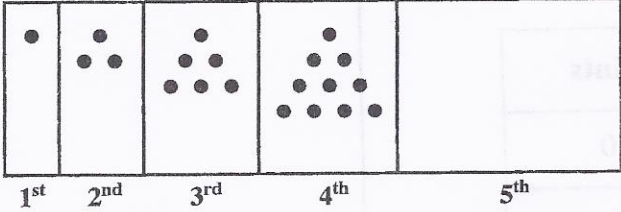
**Answer ALL questions. EACH question is worth either 2 or 3 marks.
Show ALL working in the Working Column.**

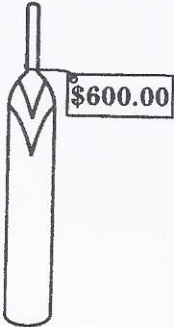
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
21.	<p>The container below holds 18 litres of oil when full. The chef used $\frac{1}{4}$ of the oil for frying chicken. How many litres of oil were used?</p> <div style="text-align: center;">  </div> <p>Answer _____ (2 marks)</p>				
22.	<p>Calculate $4\frac{3}{5} + 2\frac{1}{4}$.</p> <p>Answer _____ (2 marks)</p>				
23.	<p>Benny is playing with the FOUR cards shown below.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin: 2px;">5</div> <div style="border: 1px solid black; padding: 5px; margin: 2px;">8</div> <div style="border: 1px solid black; padding: 5px; margin: 2px;">2</div> <div style="border: 1px solid black; padding: 5px; margin: 2px;">7</div> </div> <p>Rearrange these FOUR cards to form</p> <p>(a) the smallest 4-digit number that can be obtained</p> <p>Answer <input style="width: 40px;" type="text"/> <input style="width: 40px;" type="text"/> <input style="width: 40px;" type="text"/> <input style="width: 40px;" type="text"/> (1 mark)</p> <p>(b) a 4-digit number divisible by 5.</p> <p>Answer <input style="width: 40px;" type="text"/> <input style="width: 40px;" type="text"/> <input style="width: 40px;" type="text"/> <input style="width: 40px;" type="text"/> (1 mark)</p>				

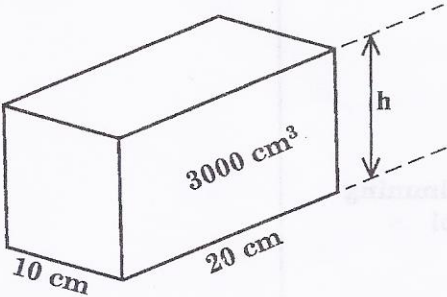
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
24.	<p>Marian uses the piece of wire shown to form a square picture frame.</p> <p style="text-align: center;"></p> <p>(a) What is the length of 1 side of the square?</p> <p style="text-align: center;">Answer _____ cm (1 mark)</p> <p>(b) What is the area of the square formed?</p> <p style="text-align: center;">Answer _____ cm² (1 mark)</p>				

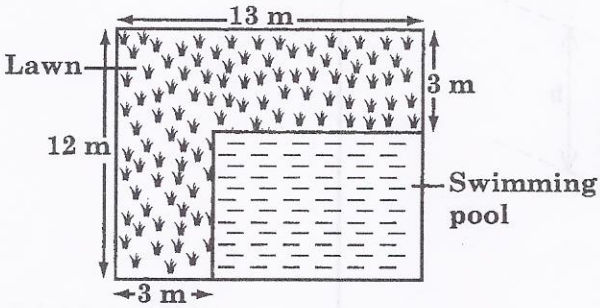
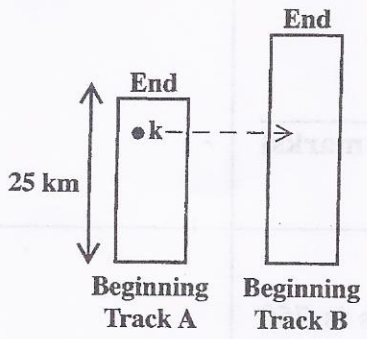
GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here																		
			KC	AT	PS																
25.	<p>The table below shows the number of points to be earned for each type of fish caught in a game of "Go Fish".</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Type of Fish</th> <th>Points</th> </tr> </thead> <tbody> <tr> <td>Coy</td> <td>10</td> </tr> <tr> <td>Fighter</td> <td>5</td> </tr> <tr> <td>Gold Fish</td> <td>2</td> </tr> </tbody> </table> <p>(a) Kevin caught 2 Fighters and 1 Gold Fish. How many points did he earn?</p> <p style="text-align: center;">Answer _____ (1 mark)</p> <p>(b) Mala earned 37 points in the game. Complete the table below to show the number of gold fishes Mala caught.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Type of Fish</th> <th>Number of Fishes</th> </tr> </thead> <tbody> <tr> <td>Coy</td> <td>1</td> </tr> <tr> <td>Fighter</td> <td>3</td> </tr> <tr> <td>Gold Fish</td> <td style="background-color: #cccccc;"></td> </tr> </tbody> </table> <p style="text-align: center;">(2 marks)</p>	Type of Fish	Points	Coy	10	Fighter	5	Gold Fish	2	Type of Fish	Number of Fishes	Coy	1	Fighter	3	Gold Fish					
Type of Fish	Points																				
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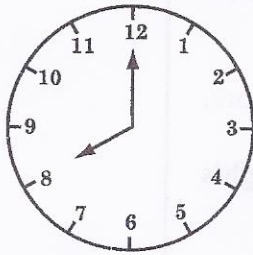
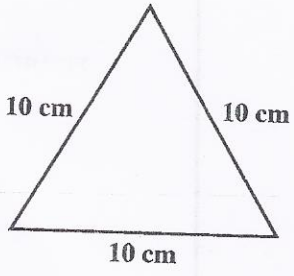
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
26.	<p>Mrs. Lal is a seamstress and puts buttons on a tablecloth to create the following pattern.</p>  <p>(a) Draw the 5th button pattern on the tablecloth. (2 marks)</p> <p>(b) Write the number of buttons used in the 7th pattern.</p> <p style="text-align: right;">Answer _____ (1 mark)</p>				
27.	<p>Ravi spends $\frac{1}{4}$ of his money to buy a pencil and $\frac{1}{3}$ on snacks.</p> <p>What fraction of his money is left?</p> <p style="text-align: right;">Answer _____ (3 marks)</p>				

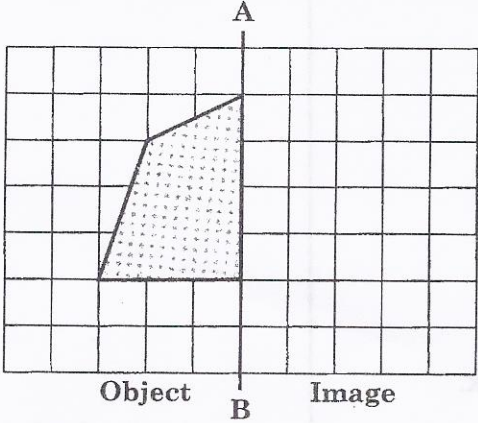
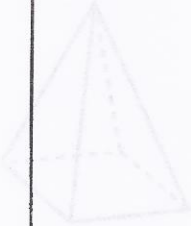
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
28.	<p>Chris went to his friend Andrew's birthday party. He travelled 0.55 of the distance by bus and walked the rest.</p> <p>(a) What fraction of the distance did Chris walk?</p> <p>Answer _____ (1 mark)</p> <p>(b) If he lives 30 km from Andrew, what distance did he travel by bus?</p> <p>Answer _____ km (2 marks)</p>		KC	AT	PS
DO NOT WRITE HERE			KC (5)	AT (10)	PS (5)
			TOTAL (20)		
29.	<p>The cost price of a bat is shown in the diagram below. After a 25% discount, how much will a customer pay, in dollars, for the bat?</p>  <p>Answer \$ _____ (2 marks)</p>				

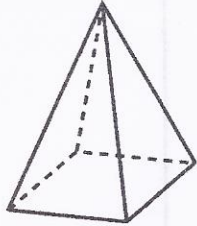

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
30.	<p>The volume of the box below is 3000 cm^3. What is its height?</p>  <p>Answer _____ cm (2 marks)</p>				
31.	<p>Mr. Barnes rented a car for 7 days at \$250.00 per day. He spent \$150.00 for gas. How much did it cost him altogether?</p> <p>Answer \$ _____ (2 marks)</p>				
32.	<p>The mass of 50 packets of granola bars is 750 grams. There are TWO granola bars in ONE packet. What is the mass of ONE bar?</p> <p>Answer _____ g (3 marks)</p>				

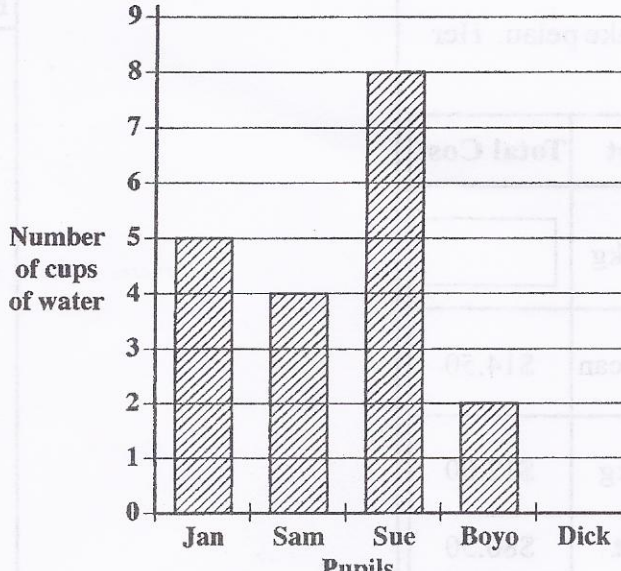
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
33.	<p>Below is a diagram of Mr. Shaw's backyard showing lawn and pool.</p>  <p>Calculate the area of Mr. Shaw's lawn.</p> <p>Answer _____ m² (3 marks)</p>				
34.	<p>The diagram shows TWO walking tracks, A and B. Keisha is at point k on track A, 5 km from the end.</p>  <p>(a) How far is Keisha from the beginning of track A?</p> <p>Answer _____ (1 mark)</p> <p>(b) She moves horizontally to track B and is now 15 km from the end of track B. What is the length of track B?</p> <p>Answer _____ (2 marks)</p>				

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
35.	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 2px solid black; padding: 10px; text-align: center;"> <p>Mr. Singh's Potatoes</p> <p>\$2.50 per 250 g</p> </div> <div style="border: 2px dotted black; padding: 10px; text-align: center;"> <p>Mrs. Vera's Potatoes</p> <p>\$3.00 per $\frac{1}{2}$ kg</p> </div> </div> <p>The signs above were displayed by two vendors.</p> <p>(a) What will be the cost of 1 kg of Mr. Singh's potatoes?</p> <p style="text-align: center;">Answer \$ _____ (2 marks)</p> <p>(b) Which vendor is selling potatoes cheaper?</p> <p style="text-align: center;">Answer _____ (1 mark)</p>					
DO NOT WRITE HERE			KC (4)	AT (10)	PS (4)	TOTAL (18)

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
36.	<p>Roseanna left home at the time shown on the clock below. She arrived at school 25 minutes later.</p> <p>(a) On the same clock, draw the new position of the minute hand when she arrived at school.</p>  <p style="text-align: right;">(1 mark)</p> <p>(b) Through what angle did the minute hand turn?</p> <p style="text-align: center;">Answer _____ degrees</p> <p style="text-align: right;">(1 mark)</p>				
37.	<p>The triangle below is an equilateral triangle.</p>  <p>Draw the lines of symmetry.</p> <p style="text-align: right;">(2 marks)</p>				

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
38.	 <p>The line AB is a mirror line.</p> <p>(a) Draw the image of the object on the grid above. (2 marks)</p> <p>(b) Name the movement.</p> <p>Answer _____ (1 mark)</p>				

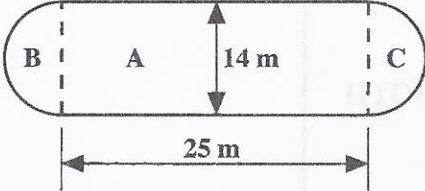
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
39.	<p>Maya's Toy Block</p>  <p>(a) Draw the net of Maya's toy block.</p> <p style="text-align: right;">(2 marks)</p> <p>(b) How many faces does the toy block have?</p> <p>Answer _____</p> <p style="text-align: right;">(1 mark)</p>					
DO NOT WRITE HERE			KC (2)	AT (5)	PS (3)	TOTAL (10)

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
40.	<p>The incomplete bar graph below shows the number of cups of water 5 pupils drank last Wednesday.</p>  <p>(a) Dick drank SIX cups of water. Complete the bar graph to show this. (1 mark)</p> <p>(b) Who drank LESS than 4 glasses of water?</p> <p>Answer _____ (1 mark)</p>					
DO NOT WRITE HERE			KC (1)	AT (1)	PS (0)	TOTAL (2)

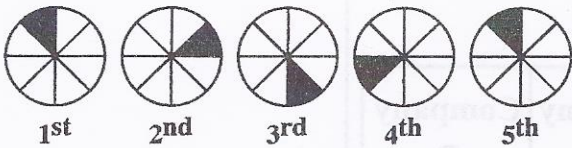
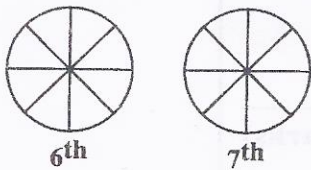
SECTION III

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

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here																					
			KC	AT	PS																			
41.	<p>Pam bought some ingredients to make pelau. Her bill is shown below.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Ingredient</th> <th style="width: 25%;">Quantity</th> <th style="width: 25%;">Unit Cost</th> <th style="width: 25%;">Total Cost</th> </tr> </thead> <tbody> <tr> <td>Chicken</td> <td>$4\frac{1}{2}$ kg</td> <td>\$12.00 per kg</td> <td style="border: 1px solid black; width: 50px; height: 20px;"></td> </tr> <tr> <td>Pigeon Peas</td> <td>2 cans</td> <td>\$ per can</td> <td>\$14.50</td> </tr> <tr> <td>Rice</td> <td> kg</td> <td>\$2.40 per kg</td> <td>\$12.00</td> </tr> <tr> <td colspan="3" style="text-align: right;">Total Cost</td> <td>\$80.50</td> </tr> </tbody> </table> <p>(a) Calculate the cost of $4\frac{1}{2}$ kg chicken. Answer \$ _____ (1 mark)</p> <p>(b) What is the cost of ONE can of pigeon peas? Answer \$ _____ (1 mark)</p> <p>(c) How many kilograms of rice did she buy? Answer _____ kg (1 mark)</p> <p>(d) These ingredients make pelau for 10 persons. How much will it cost Pam to make pelau for 15 persons? Answer \$ _____ (2 marks)</p>	Ingredient	Quantity	Unit Cost	Total Cost	Chicken	$4\frac{1}{2}$ kg	\$12.00 per kg		Pigeon Peas	2 cans	\$ per can	\$14.50	Rice	 kg	\$2.40 per kg	\$12.00	Total Cost			\$80.50			
		Ingredient	Quantity	Unit Cost	Total Cost																			
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		Rice	 kg	\$2.40 per kg	\$12.00																			
		Total Cost			\$80.50																			

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
43.	<p style="text-align: center;">Race track</p>  <p>(a) State the radius of the circular end of the race track.</p> <p style="text-align: center;">Answer _____ m (1 mark)</p> <p>(b) Calculate the perimeter of the race track.</p> <p style="text-align: center;">Answer _____ m (2 marks)</p> <p>(c) What is the area of the race track?</p> <p style="text-align: center;">Answer _____ m² (2 marks)</p>				

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here										
			KC	AT	PS								
44.	<p align="center">Rates per Minute for Cellular Phone Companies</p> <table border="1"> <thead> <tr> <th></th> <th>Company A</th> <th>Company B</th> </tr> </thead> <tbody> <tr> <td>DAY 7:00 a.m. to 7:00 p.m.</td> <td>\$1.15</td> <td>\$1.25</td> </tr> <tr> <td>NIGHT 7:00 p.m. to 7:00 a.m.</td> <td>85¢</td> <td>75¢</td> </tr> </tbody> </table> <p>(a) Sharlene has a phone from Company A. She spent 15 minutes talking to her friend on Thursday night. How much does she pay for this call?</p> <p align="right">Answer \$ _____ (2 marks)</p> <p>(b) Akil has a phone from Company B. He calls a friend at 10 a.m. on Monday. The call costs \$30.00. How long did that phone call last?</p> <p align="right">Answer _____ (3 marks)</p>		Company A	Company B	DAY 7:00 a.m. to 7:00 p.m.	\$1.15	\$1.25	NIGHT 7:00 p.m. to 7:00 a.m.	85¢	75¢			
	Company A	Company B											
DAY 7:00 a.m. to 7:00 p.m.	\$1.15	\$1.25											
NIGHT 7:00 p.m. to 7:00 a.m.	85¢	75¢											
DO NOT WRITE HERE	KC (3)	AT (5)	PS (2)	TOTAL (10)									

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
45.	<p>Study the position of the shaded portion in the circles below.</p>  <p>1st 2nd 3rd 4th 5th</p> <p>A rule was used to make the pattern of figures above.</p> <p>(a) What FRACTION of EACH circle is shaded?</p> <p>Answer _____</p> <p>(1 mark)</p> <p>(b) (i) Complete the next TWO figures in the pattern.</p>  <p>6th 7th</p> <p>(2 marks)</p> <p>(ii) Explain how you got your answer.</p> <p>Answer _____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>(2 marks)</p>					
DO NOT WRITE HERE			KC (1)	AT (2)	PS (2)	TOTAL (5)

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here												
			KC	AT	PS										
46.	<p>Mr. Willy's construction company built houses on four different streets, as on the pictograph below.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">Number of houses under construction</th> </tr> </thead> <tbody> <tr> <td>Tamarind Terrace</td> <td style="text-align: center;">↑</td> </tr> <tr> <td>Pommerac Place</td> <td style="text-align: center;">↑ ↑ ↑ ↑</td> </tr> <tr> <td>Coconut Crescent</td> <td style="text-align: center;">↑ ↑ ↑</td> </tr> <tr> <td>Lemon Lane</td> <td style="text-align: center;">↑ ↑</td> </tr> </tbody> </table> <p style="text-align: center;">(↑ = 20 houses)</p>	Number of houses under construction		Tamarind Terrace	↑	Pommerac Place	↑ ↑ ↑ ↑	Coconut Crescent	↑ ↑ ↑	Lemon Lane	↑ ↑				
		Number of houses under construction													
Tamarind Terrace	↑														
Pommerac Place	↑ ↑ ↑ ↑														
Coconut Crescent	↑ ↑ ↑														
Lemon Lane	↑ ↑														
<p>(a) How many houses are under construction in Lemon Lane?</p> <p style="text-align: right;">Answer _____ (1 mark)</p> <p>(b) How many more houses were built on Pommerac Place than on Coconut Crescent?</p> <p style="text-align: right;">Answer _____ (2 marks)</p> <p>(c) What percentage (%) of houses under construction are on Tamarind Terrace?</p> <p style="text-align: right;">Answer _____ (2 marks)</p>															
DO NOT WRITE HERE			KC (1)	AT (2)	PS (2)	TOTAL (5)									

END OF TEST

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