

FORM SEA/2005

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

TRINIDAD AND TOBAGO

Nº 21185

Nº 21185

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.**

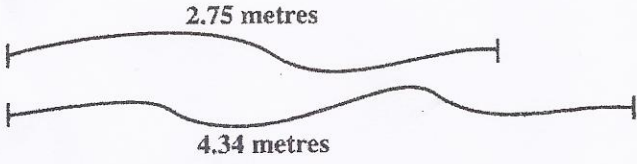

SECTION I

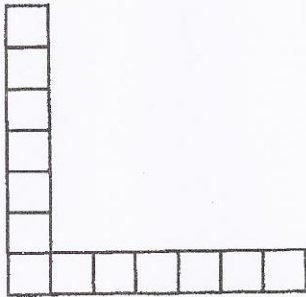
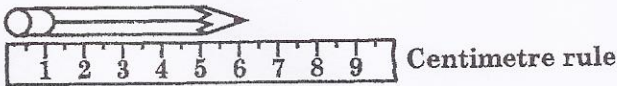
Answer ALL questions. Each question is worth 1 mark.
Show ALL working in the Working Column.

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	I
1.	Write the number one million, eight hundred and five thousand and seventy-seven as a numeral/figure. Answer _____				
2.	Express as a single number: $3 \times 1000 + 2 \times 10 + 5 \times 1$ Answer _____				
3.	Mother buys 6 oranges, 2 pawpaws and 4 mangoes. What fraction of the fruits are oranges? Answer _____				
4.	Fred was born in January 1993. He moved to Chaguanas in February 2001. How old was Fred when he moved to Chaguanas? Answer _____ years				

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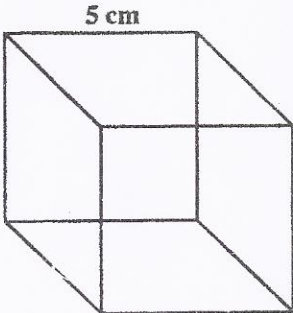
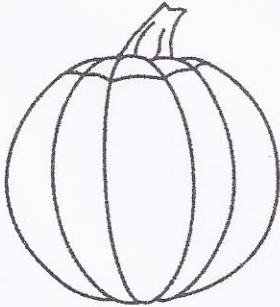
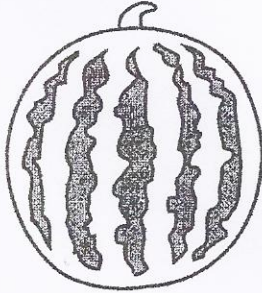
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AT F

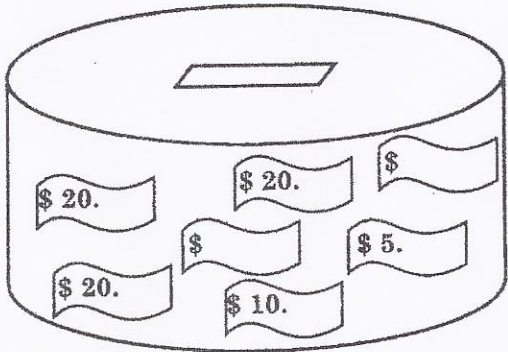
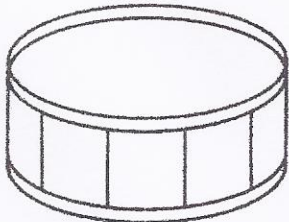
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here			
			KC	AT	PS	
5.	<p>Find the total length of the 2 pieces of string below.</p>  <p>Answer _____ m</p>					
6.	<p>Write the following numbers in ASCENDING order (smallest first):</p> <p>0.25, 0.16, 0.04</p> <p>Answer _____</p>					
7.	<p>Every fifth customer at Nicefoods Supermarket is given a prize. How many prizes are given out if 63 customers enter the supermarket?</p> <p>Answer _____</p>					
8.	<p>What per cent of the marbles in the bag below are red?</p>  <p>Answer _____</p>					
DO NOT WRITE HERE			KC (2)	AT (4)	PS (2)	

No.	TEST ITEMS	WORKING COLUMN	Do No Write Here	
			KC	AT
9.	<p>Jamie has \$1.20 and Josh has \$2.50. How much money do they have ALTOGETHER?</p> <p>Answer \$ _____</p>			
10.	<p>In the shape below the side of each square measures 1 cm. What is the area of the shape?</p>  <p>Answer _____ cm²</p>			
11.	<p>State the length of the pencil to the NEAREST centimetre.</p>  <p>Answer _____ cm</p>			

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AT

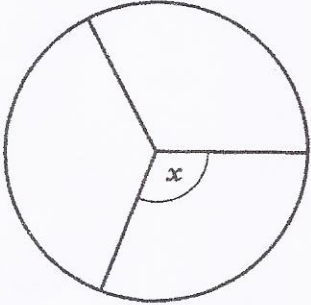
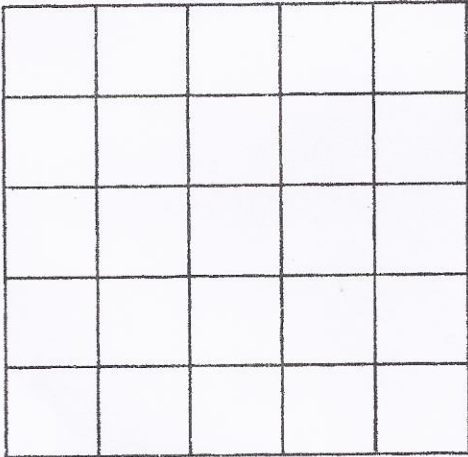
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
12.	<p>Calculate the volume of the cube below.</p>  <p>Answer _____ cm³</p>				
13.	<p>Which of the two fruits below has the GREATER mass?</p>  <p>1.5 kg Pumpkin</p>  <p>1358 g Watermelon</p> <p>Answer _____</p>				

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here	
			KC	AT
14.	<p>Cindy saves \$100 in her 'cash-pan'. Write in the values of the two unmarked notes.</p> 			
15.	<p>On Sports Day, Mike runs 100 metres in 13.89 seconds and Neal runs the same distance in 13.01 seconds.</p> <p>Who is the FASTER runner?</p> <p>Answer _____</p>			
DO NOT WRITE HERE		KC (2)	AT (4)	PS (1)
16.	<p>What is the name of the solid that the drum below BEST represents?</p>  <p>Answer _____</p>			

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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
17.	<p>A circular piece of paper is cut into three EQUAL parts as shown in the diagram below. What is the size of angle x?</p>  <p>Answer _____ degrees</p>				
18.	<p>On the grid below, draw a three-sided figure with TWO equal sides and one right-angle.</p> 				
DO NOT WRITE HERE			KC (1)	AT (1)	PS (1)

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here														
			KC	AT	P												
19.	Complete the table below. <table border="1" style="margin: 10px auto;"> <thead> <tr> <th>Flowers</th> <th>Tally</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>Roses</td> <td> </td> <td>5</td> </tr> <tr> <td>Ginger Lilies</td> <td></td> <td>9</td> </tr> <tr> <td>Anthuriums</td> <td> </td> <td>2</td> </tr> </tbody> </table>	Flowers	Tally	Frequency	Roses		5	Ginger Lilies		9	Anthuriums		2				
		Flowers	Tally	Frequency													
		Roses		5													
		Ginger Lilies		9													
Anthuriums		2															
20.	The mean of a set of numbers is 6. The numbers add up to 120. How many numbers are there? Answer _____																
DO NOT WRITE HERE			KC (0)	0	AT (1)												
			PS (1)														

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SECTION II

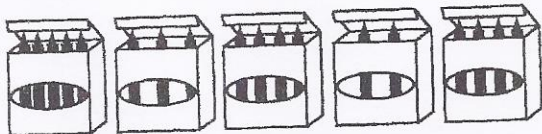
Answer ALL questions. Each question is worth either 2 or 3 marks.
Show ALL working in the Working Column.

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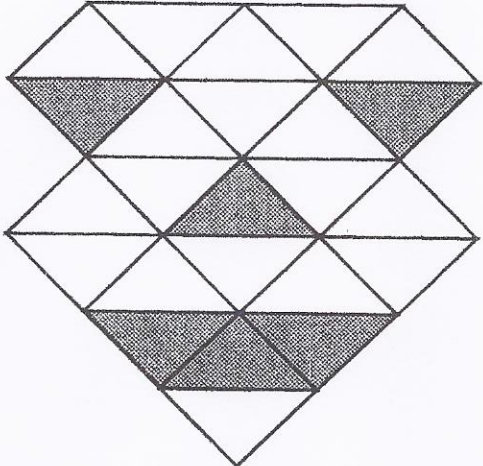
AT P

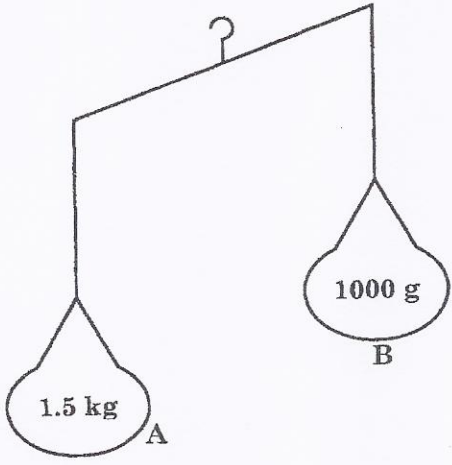
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
21.	<p>Here are three number cards.</p> <p style="text-align: center;"><input type="text" value="5"/> <input type="text" value="6"/> <input type="text" value="2"/></p> <p>(a) What is the LARGEST number that can be made using these cards?</p> <p style="text-align: right;">Answer _____ (1 mark)</p> <p>(b) Arrange the cards to show a number between 200 and 300.</p> <p style="text-align: center;"><input type="text"/> <input type="text"/> <input type="text"/></p> <p style="text-align: right;">(1 mark)</p>				
22.	<p>Find the product of $4\frac{2}{5}$ and $1\frac{4}{11}$.</p> <p style="text-align: right;">Answer _____ (2 marks)</p>				
23.	<p>For every \$3.00 that Gytri saves, her sister, Arti, saves \$4.00. At the end of one month, Arti saves \$20.00. How much does Gytri save in the same time?</p> <p style="text-align: right;">Answer \$ _____ (2 marks)</p>				

PA

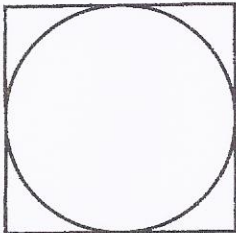
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here	
			KC	AT
24.	<p>Peter rides 2.5 km to school everyday. After he rides 1.5 km on Monday his bicycle breaks down. He walks 400 m before getting a ride to school with his friend.</p> <p>What distance does he ride with his friend?</p> <p>Answer _____ (2 marks)</p>			
25.	<p>60% of a number is 144. What is the number?</p> <p>Answer _____ (3 marks)</p>			
26.	<p>Calculate $1\frac{2}{9} \div \frac{2}{3}$. Give your answer to the NEAREST whole number.</p> <p>Answer _____ (3 marks)</p>			
27.	<p>Students are given 5 boxes containing 6 crayons EACH. The diagram below shows the number of crayons remaining, after some are lost. What fraction of the total number of crayons REMAINS?</p>  <p>Answer _____ (3 marks)</p>			






GO ON TO THE NEXT P

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
28.	 <p>(a) State as a decimal the portion of the diagram above that is shaded.</p> <p>Answer _____ (1 mark)</p> <p>(b) What percentage of the diagram above is UNSHADED?</p> <p>Answer _____ (2 marks)</p>				
DO NOT WRITE HERE			KC (5)	AT (10)	PS (5)



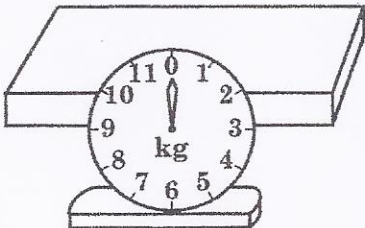
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
29.	<p>How many grams (g) must be removed from A (1.5 kg) to make the scale balance?</p>  <p>Answer _____ g (2 marks)</p>				
30.	<p>A box holds 1.2 litres of juice. How many packets each containing 150 ml can be filled from the box?</p> <p>Answer _____ (2 marks)</p>				

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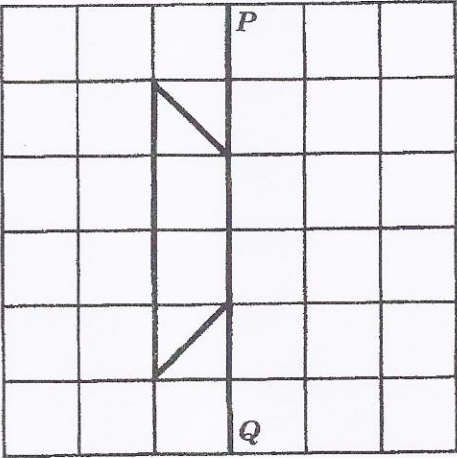
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here																	
			KC	AT	PS															
31.	<p>The diameter of the circle below is 10 cm. What is the area of the square?</p>  <p>Answer _____ cm² (2 marks)</p>																			
32.	<p>Complete the paysheet below.</p> <table border="1" data-bbox="250 1100 951 1617"> <thead> <tr> <th>Name</th> <th>Rate of Pay</th> <th>Wages (\$)</th> </tr> </thead> <tbody> <tr> <td>Orville</td> <td>3 days wages at \$60 per day</td> <td><input type="text"/></td> </tr> <tr> <td>Patrice</td> <td><input type="text"/> days wages at \$60 per day</td> <td>240.00</td> </tr> <tr> <td>Anand</td> <td>5 days wages at \$ <input type="text"/> per day</td> <td>225.00</td> </tr> <tr> <td colspan="2" style="text-align: right;">TOTAL</td> <td>645.00</td> </tr> </tbody> </table> <p>(3 marks)</p>	Name	Rate of Pay	Wages (\$)	Orville	3 days wages at \$60 per day	<input type="text"/>	Patrice	<input type="text"/> days wages at \$60 per day	240.00	Anand	5 days wages at \$ <input type="text"/> per day	225.00	TOTAL		645.00				
Name	Rate of Pay	Wages (\$)																		
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TOTAL		645.00																		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
33.	<p>The clocks shown below display the starting time of each of four games numbered 1 to 4. All of the games are in the afternoon.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Game 1</p>  </div> <div style="text-align: center;"> <p>Game 2</p>  </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> <p>Game 3</p>  </div> <div style="text-align: center;"> <p>Game 4</p>  </div> </div> <p>(a) How many minutes after the start of each game does the next game start?</p> <p style="text-align: right;">Answer _____ minutes (1 mark)</p> <p>(b) At what time does Game 5 start?</p> <p style="text-align: right;">Answer _____ (1 mark)</p> <p>(c) On the clock below, draw the hands to show the starting time of Game 5.</p> <div style="text-align: center; margin-top: 20px;"> <p>Game 5</p>  </div> <p style="text-align: right;">(1 mark)</p>				

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
34.	<p>Sally borrows \$5 000 from the bank and agrees to repay this sum in 2 years. The bank charges simple interest at a rate of 10% per year.</p> <p>How much does Sally repay in TOTAL?</p> <p>Answer \$ _____</p> <p style="text-align: right;">(3 marks)</p>				
35.	<p>(a) Calculate the total weight, in kilograms, of the TWO items shown below.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>755 g</p> </div> <div style="text-align: center;">  <p>3250 g</p> </div> </div> <p>Answer _____ kg</p> <p style="text-align: right;">(2 marks)</p> <p>(b) If the TWO items are placed together on the scale below, the position of the needle will be between _____ and _____.</p> <p style="text-align: right;">(1 mark)</p> <div style="text-align: center;">  </div>				
DO NOT WRITE HERE			KC (4)	AT (10)	PS (4)

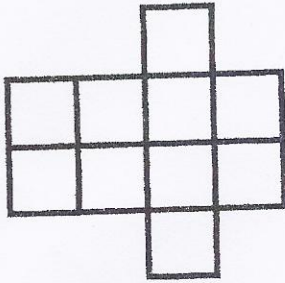

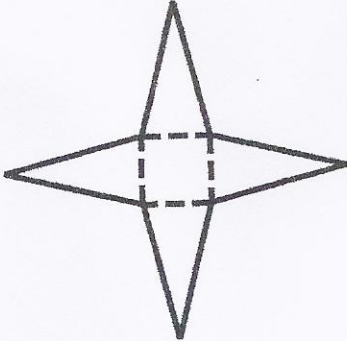

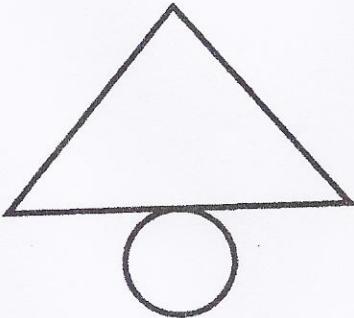
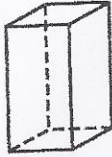
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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	PS
36.	<p>The minute hand of the clock below is on 12.</p>  <p>It moves to 4. Through what angle does the minute hand turn?</p> <p>Answer _____ degrees (2 marks)</p>				
37.	 <p>(a) PQ is a mirror line. Draw the image of the shape given on the grid above. (1 mark)</p> <p>(b) Draw another line of symmetry on the new shape formed above. (1 mark)</p>				

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	<i>Do Not Write Here</i>		
38.	Complete the table below.		KC	AT	PS
Plane shape	Number of sides	Number of equal sides	Number of pairs of parallel sides		
Square	4	4	_____		
Isosceles triangle	3	_____	0		
_____	3	3	0		

(3 marks)

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	P
39.	<p>Draw lines to match the following nets to their solids.</p> <p>(a)</p>   <p>(b)</p>   <p>(c)</p>   <p>(3 marks)</p>				
DO NOT WRITE HERE			KC (2)	AT (5)	PS (3)

GO ON TO THE NEXT P.

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here										
			KC	AT	PS								
40.	<p>The pictograph below shows the number of people in different carnival bands.</p> <p>☺ represents 1000 people</p> <table style="margin-left: 40px;"> <tr> <td>Cowboys</td> <td>☺</td> </tr> <tr> <td>Warriors</td> <td>☺ ☺ ☺ ☺ ☺ ☺</td> </tr> <tr> <td>Sailors</td> <td>_____</td> </tr> <tr> <td>Amerindians</td> <td>☺ ☺</td> </tr> </table> <p>(a) There are 4000 people in the sailor band. Complete the pictograph to show the number of Sailors. (1 mark)</p> <p>(b) How many MORE people are in Warriors than in Amerindians?</p> <p>Answer _____ (1 mark)</p>	Cowboys	☺	Warriors	☺ ☺ ☺ ☺ ☺ ☺	Sailors	_____	Amerindians	☺ ☺				
Cowboys	☺												
Warriors	☺ ☺ ☺ ☺ ☺ ☺												
Sailors	_____												
Amerindians	☺ ☺												
DO NOT WRITE HERE			KC (1)	AT (1)	PS (0)	0							

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SECTION III

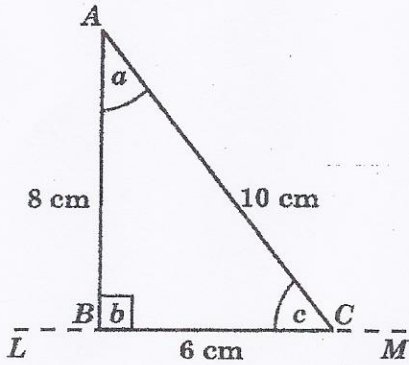
**Answer ALL questions. Each question is worth 5 marks.
Show ALL working in the Working Column.**

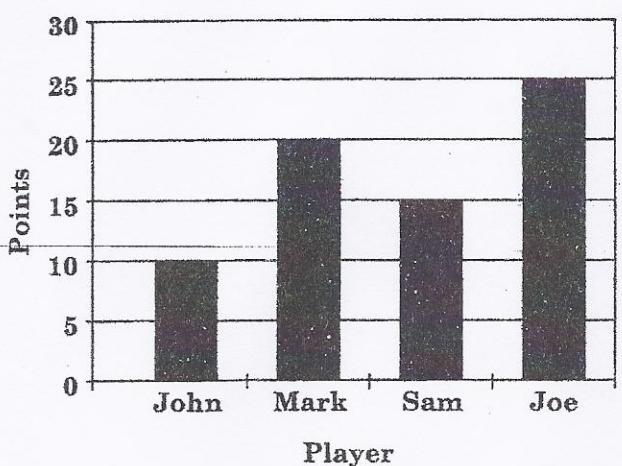
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here		
			KC	AT	
41.	<p>Riverside school has 15 classes. Each class has 35 students.</p> <p>(a) How many students are there in the school?</p> <p style="text-align: right;">Answer _____ (2 marks)</p> <p>(b) If the size of EACH class is reduced to 25 students, how many MORE classes are needed?</p> <p style="text-align: right;">Answer _____ (3 marks)</p>				
42.	<p>(a) There are 150 mangoes in a bag. John receives 50% of the mangoes, his brother Jack receives 30% and Gail takes the rest.</p> <p>Calculate the number of mangoes</p> <p>(i) John receives</p> <p style="text-align: right;">Answer _____ (1 mark)</p> <p>(ii) Gail receives</p> <p style="text-align: right;">Answer _____ (2 marks)</p> <p>(b) John gives his neighbour 80% of his mangoes. How many mangoes does John now have?</p> <p style="text-align: right;">Answer _____ (2 marks)</p>				
DO NOT WRITE HERE			KC (3)	AT (5)	PS (2)

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here				
			KC	AT	PS		
43.	<p>Pat's family has 7 members. EACH member spends \$10 to enter a cinema. They meet 3 friends and buy lunch for everyone at \$9.95 EACH.</p> <p>(a) How much money do they spend in all?</p> <p>Answer _____ (3 marks)</p>						
	<p>(b) Daddy pays for everything with \$200.00. How much change does he receive?</p> <p>Answer _____ (2 marks)</p>						
44.	<p>The cost price of an article is \$240.00 and the selling price is \$300.00.</p> <p>(a) What is the percentage profit?</p> <p>Answer _____ % (3 marks)</p>						
	<p>(b) The customer is given a 5% discount. What price would he pay for the article?</p> <p>Answer \$ _____ (2 marks)</p>						
DO NOT WRITE HERE		KC (3)		AT (5)		PS (2)	

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do No Write Here	
			KC	AT
45.	<p>(a) Name the type of triangle shown below.</p> <p>Answer _____ (1 mark)</p>  <p>(b) Which of the angles a, b or c, is the</p> <p>(i) LARGEST?</p> <p>Answer _____ (1 mark)</p> <p>(ii) SMALLEST?</p> <p>Answer _____ (1 mark)</p> <p>(c) Flip triangle ABC about the line LM and draw the image. What is the name of the new shape formed?</p> <p>Answer _____ (2 marks)</p>			
DO NOT WRITE HERE		KC (1)	AT (2)	PS (2)

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here				
			KC	AT	PS		
46.	<p>The bar chart below shows four players' scores in a basketball game.</p>  <p>(a) Which player scores 15 points?</p> <p>Answer _____ (1 mark)</p> <p>(b) What is the difference between Joe's score and John's score?</p> <p>Answer _____ (1 mark)</p> <p>(c) What is the mean score of the four players?</p> <p>Answer _____ (3 marks)</p>						
DO NOT WRITE HERE		KC (1)		AT (2)		PS (2)	

END OF TEST

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