

TEST CODE 5103

APRIL 2003

FORM SEA/2003 - 1

CARIBBEAN EXAMINATIONS COUNCIL

TRINIDAD AND TOBAGO

21094

SECONDARY ENTRANCE ASSESSMENT

21094

MATHEMATICS

75 minutes

PRIMARY
SCHOOL: _____

CENTRE NUMBER: _____

READ THE FOLLOWING INSTRUCTIONS CAREFULLY.

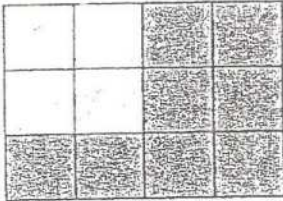
1. This test is divided into THREE sections.
2. Make sure that you understand the directions before you start to work on any section.
3. Write ALL your answers in this test booklet. Show ALL your working in the working column.
4. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

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DO NOT WRITE IN THIS SPACE

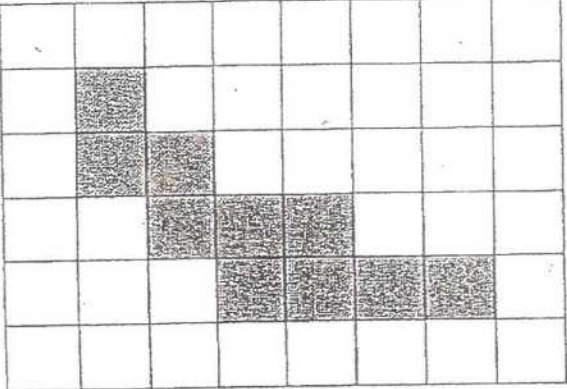

Section	Items	Max Score	Marker	
			Score	Initials
I	1 - 5	5		
	6 - 10	5		
	11 - 12	2		
	13	1		
	Total	13		
II	14 - 24	22		
	25 - 33	18		
	34 - 36	6		
	37	2		
	Total	48		
III	38 - 41	12		
	42 - 45	12		
	46 - 48	9		
	49 - 50	6		
	Total	39		
		OVERALL TOTAL		

SECTION I

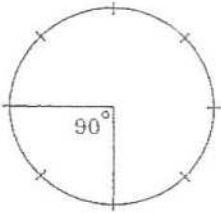
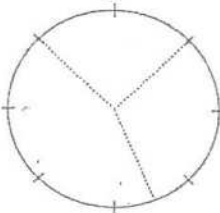
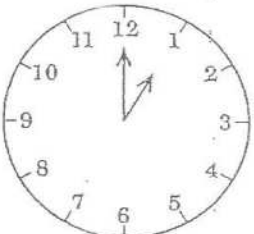
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
1.	<p>What fraction of the whole is shaded?</p>  <p>Answer _____</p>		
2.	<p>Round off 386 to the NEAREST ten.</p> <p>Answer _____</p>		
3.	<p>Add:</p> $0.25 + 0.75$ <p>Answer _____</p>		
4.	<p>Write ONE of the symbols, >, <, or =, in the box to complete the following statement correctly.</p> $\frac{4}{6} \quad \boxed{\quad} \quad \frac{2}{3}$		

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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
5.	$\frac{2}{p} = \frac{6}{15}$ p = _____ Answer _____		
	<p>Select the MOST suitable unit of measure from the box given below to complete correctly EACH of Questions 6 and 7.</p> <div data-bbox="289 868 902 932" style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">centimetres, grams, kilograms, litres, metres</div> <p>6. The mass of a goat is measured in _____</p> <p>7. The length of a notebook is measured in _____</p>		
8.	Convert 150 centimetres to metres. Answer _____ m		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
9.	 <p>1 cm grid</p> <p>What is the area, in square centimetres, of the shaded shape shown in the diagram above?</p> <p>Answer _____ cm²</p>		
10.	<p>During the sale, Ann paid \$26.00 for the blouse shown in the diagram below.</p>  <p>What was the price of the blouse BEFORE the sale?</p> <p>Answer _____</p>		

GO ON TO THE NEXT PAGE

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here												
11.	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>A</p>  </div> <div style="text-align: center;"> <p>B</p>  </div> </div> <p>The angle in A is 90°. Trace over TWO of the dotted lines in B that would form an angle of 90°.</p>														
12.	<p>In the diagram below, the shorter hand is pointing to the number, 1.</p> <div style="text-align: center;">  </div> <p>The shorter hand turns through 180°. To which number is it now pointing?</p> <p>Answer _____</p>														
13.	<p>Complete the frequency table below.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Colour</th> <th>Tally</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>Black</td> <td> </td> <td>3</td> </tr> <tr> <td>Blue</td> <td> </td> <td></td> </tr> <tr> <td>Brown</td> <td> </td> <td>2</td> </tr> </tbody> </table>	Colour	Tally	Frequency	Black		3	Blue			Brown		2		
Colour	Tally	Frequency													
Black		3													
Blue															
Brown		2													

SECTION II

In this section, show ALL your working in the working column.

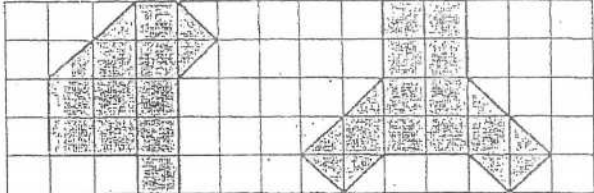
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
14.	Calculate the SUM of the three numbers: 37, 16 008 and 765. Answer _____		
15.	The number 6 327 is increased by 429. What is the NEW number? Answer _____		
16.	Calculate the DIFFERENCE between 2 308 and 589. Answer _____		
17.	20% of a number is 6. What is the number? Answer _____		
18.	Arrange the following fractions in order of size beginning with the LARGEST. $\frac{5}{8}$, $\frac{1}{4}$, $\frac{2}{3}$ Answer _____		

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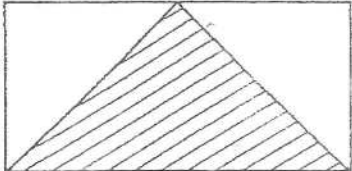
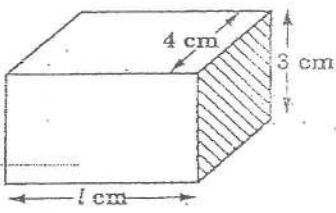
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
19.	$1\frac{1}{3} + 2\frac{4}{7} =$ Answer _____		
20.	$4\frac{1}{2} + 2\frac{1}{4} =$ Answer _____		
21.	$\frac{3}{4}$ of Amy's pocket money is \$15. How much is ALL of Amy's pocket money. Answer _____		
22.	Ray collected 156 shells on Wednesday. He collected 67 shells LESS on Tuesday. How many shells did he collect on Tuesday? Answer _____		
23.	Write $\frac{3}{10} + \frac{7}{100}$ as a single fraction using DECIMAL notation. Answer _____		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here												
24.	<p>Ian has 126 marbles and Tim has 27 more marbles than Ian. ALTOGETHER, how many marbles do they have?</p> <p>Answer _____</p>														
25.	<table><tr><td></td><td>km</td><td>m</td><td></td></tr><tr><td></td><td>16</td><td>437</td><td></td></tr><tr><td>+</td><td>9</td><td>702</td><td></td></tr></table> <p>Answer _____</p>		km	m			16	437		+	9	702			
	km	m													
	16	437													
+	9	702													
26.	<p>A baker wishes to complete the guide for making dough shown in the table below.</p> <p style="text-align: center;">Baking Guide</p> <table border="1"><tr><td>Cups of Water</td><td>3</td><td>6</td><td></td><td>12</td><td>15</td></tr><tr><td>Cups of Flour</td><td>8</td><td>16</td><td>24</td><td>32</td><td></td></tr></table> <p>Find the numbers needed to complete the guide and complete the table.</p>	Cups of Water	3	6		12	15	Cups of Flour	8	16	24	32			
Cups of Water	3	6		12	15										
Cups of Flour	8	16	24	32											

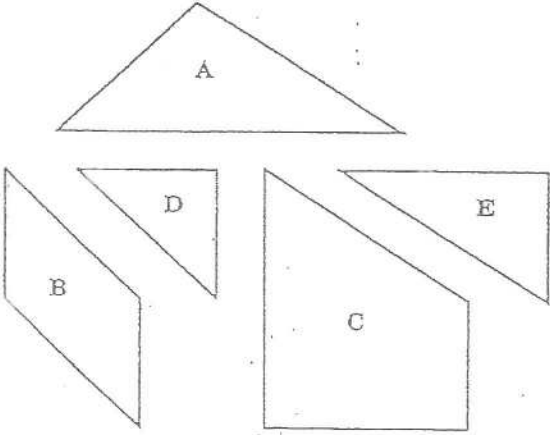
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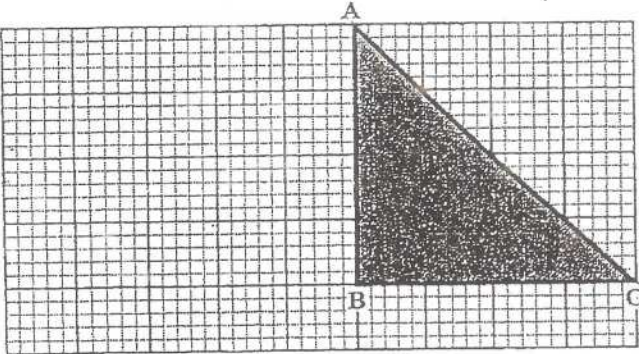
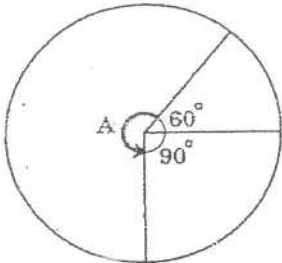
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here															
27.	<p>Calculate the DIFFERENCE between the areas of the two shapes below.</p>  <p>1 - cm grid</p> <p>Answer _____ cm²</p>																	
28.	<p>The following table shows Mr Jones' budget for his total monthly salary.</p> <table border="1" data-bbox="354 1073 789 1332"><thead><tr><th colspan="3">MONTHLY BUDGET</th></tr></thead><tbody><tr><td>Rent</td><td>—</td><td>\$ 800</td></tr><tr><td>Food</td><td>—</td><td>\$1200</td></tr><tr><td>Savings</td><td>—</td><td>\$ 400</td></tr><tr><td>Other</td><td>—</td><td>\$ 800</td></tr></tbody></table> <p>What per cent of Mr Jones' salary was saved?</p> <p>Answer _____</p>	MONTHLY BUDGET			Rent	—	\$ 800	Food	—	\$1200	Savings	—	\$ 400	Other	—	\$ 800		
MONTHLY BUDGET																		
Rent	—	\$ 800																
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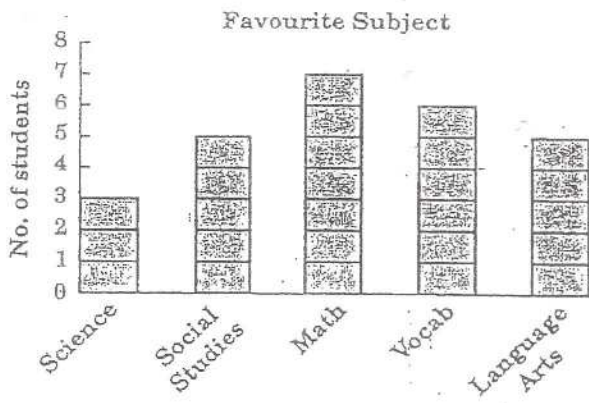
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
29.	<p>In the diagram below, the area of the shaded triangle is 28.3 cm^2.</p>  <p>Calculate the area of the rectangle.</p> <p>Answer _____ cm^2</p>		
30.	<p>The perimeter of a square is 56 cm. What is the length of EACH of its sides?</p> <p>Answer _____ cm</p>		
31.	<p>The volume of the box shown below is 72 cm^3.</p>  <p>(a) Calculate the length, l, of the box.</p> <p>Answer _____ cm</p> <p>(b) Calculate the area of the shaded face.</p> <p>Answer _____ cm^2</p>		

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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
32.	<p>VAT is calculated at 15%.</p> <p>Calculate the VAT to be paid on \$400.00.</p> <p>Answer _____</p>		
33.	<p>A bus arrived at Chaguanas at 9.05 a.m. It waited for 15 minutes for people to get on. Half an hour later, it arrived in San Fernando. At what time did the bus arrive in San Fernando?</p> <p>Answer _____</p>		
34.	<p>Five plane shapes, A, B, C, D and E, are given below.</p>  <p>Which of the shapes has ONLY ONE pair of parallel lines?</p> <p>Answer _____</p>		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
35.	<p>The diagram below shows the position of triangle ABC.</p>  <p>Triangle ABC is flipped about the line AB. Draw the new position of the triangle.</p> <p>Answer _____</p>		
36.	 <p>Calculate the size of angle A.</p> <p>Answer _____</p>		

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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here												
37.	<p>The diagram below shows the favourite subjects of the students in Class 4. Each box represents a student. Each student can choose only 1 subject.</p> <p style="text-align: center;">Favourite Subject</p>  <table border="1" data-bbox="259 630 844 1029"><caption>Favourite Subject Data</caption><thead><tr><th>Subject</th><th>No. of students</th></tr></thead><tbody><tr><td>Science</td><td>3</td></tr><tr><td>Social Studies</td><td>5</td></tr><tr><td>Math</td><td>7</td></tr><tr><td>Vocab</td><td>6</td></tr><tr><td>Language Arts</td><td>5</td></tr></tbody></table> <p>How many students are in Class 4?</p> <p style="text-align: center;">Answer _____</p>	Subject	No. of students	Science	3	Social Studies	5	Math	7	Vocab	6	Language Arts	5		
Subject	No. of students														
Science	3														
Social Studies	5														
Math	7														
Vocab	6														
Language Arts	5														

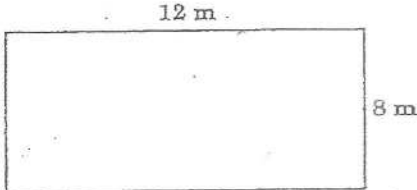
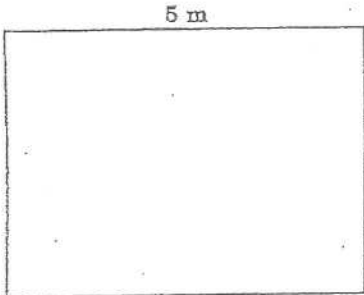
SECTION III

In this section, show ALL your working in the working column.

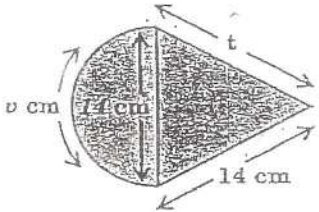
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
38.	<p>In 2002, Jamal was 21 years old.</p> <p>In 2005, Jamal will be three times as old as Malcolm.</p> <p>(a) How old will Malcolm be in 2005?</p> <p>Answer _____</p> <p>(b) How old was Malcolm in 2002?</p> <p>Answer _____</p>		
39.	<p style="text-align: center;">1</p> <p style="text-align: center;">1 1</p> <p style="text-align: center;">1 2 1</p> <p style="text-align: center;">1 3 3 1</p> <p style="text-align: center;">1 4 6 4 1</p> <p style="text-align: center;">1 — — — 1</p> <p>The arrangement of the numbers above forms a pattern. Use the pattern to write the missing numbers in the last row.</p> <p>Answer _____</p>		

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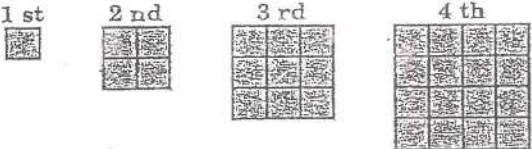
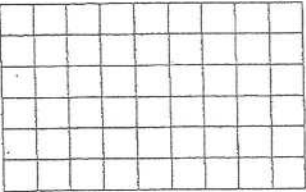
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here								
40.	<p>Seven cards, A, B, C, D, E, F and G, are shown below.</p> <p>The numbers on the cards form a pattern.</p> <table border="0" data-bbox="272 638 860 872"><tr><td style="border: 1px solid black; padding: 5px; display: inline-block; margin-right: 20px;">A 1.2</td><td style="border: 1px solid black; padding: 5px; display: inline-block; margin-right: 20px;">B 1.5</td><td style="border: 1px solid black; padding: 5px; display: inline-block; margin-right: 20px;">C 1.8</td><td style="border: 1px solid black; padding: 5px; display: inline-block; margin-right: 20px;">D</td></tr><tr><td style="border: 1px solid black; padding: 5px; display: inline-block; margin-right: 20px;">E 2.4</td><td style="border: 1px solid black; padding: 5px; display: inline-block; margin-right: 20px;">F</td><td style="border: 1px solid black; padding: 5px; display: inline-block; margin-right: 20px;">G 3.0</td><td></td></tr></table> <p>(a) Use the pattern to write the numbers on D and F.</p> <p>(b) Write THREE numbers from the cards above which give a TOTAL of 6.0.</p> <p>Use each card ONCE.</p> <p style="text-align: center;">Answer _____</p>	A 1.2	B 1.5	C 1.8	D	E 2.4	F	G 3.0			
A 1.2	B 1.5	C 1.8	D								
E 2.4	F	G 3.0									
41.	<p>John had \$40.00. He spent $\frac{1}{2}$ of his money on video games, $\frac{1}{5}$ on snacks and saved the remainder. What PER CENT of his money did he save?</p> <p style="text-align: center;">Answer _____</p>										

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
42.	<p>The rectangular garden shown below is 12 m long and 8 m wide.</p>  <p>What is the LARGEST number of rectangular seed beds 3 m by 4 m that can be made in the garden?</p> <p>Answer _____</p>		
43.	 <p>A rug is 4 m long and 3 m wide. It is placed in the centre of the floor of a room 5 m long and 4 m wide. Calculate the area of the floor that is NOT covered by the rug.</p> <p>Answer _____</p>		

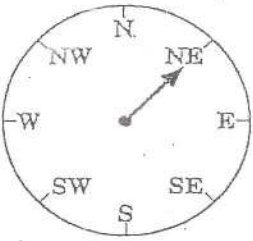
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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
44.	<p>The shape below consists of an equilateral triangle and a semicircle.</p>  <p>(a) Write down the value of t.</p> <p>Answer _____</p> <p>(b) The length of the curved portion is v cm. Find the value of v.</p> <p>Answer _____</p> <p>(c) Calculate the perimeter of the shape.</p> <p>Answer _____ cm</p>		

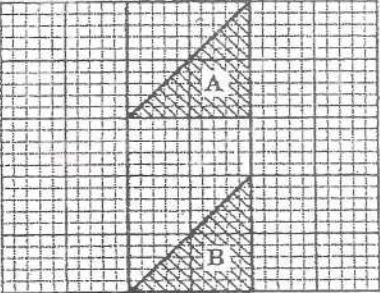
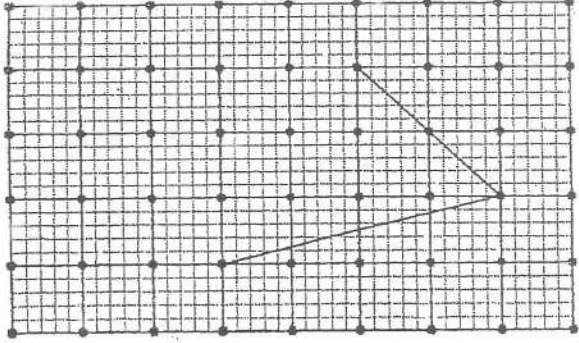
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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
45.	<p>A pattern of shapes is formed by shading squares on a grid as shown below. Each small square has an area of 1 sq. cm.</p> <p>1st 2nd 3rd 4th</p>  <p>(a) Continue the pattern by shading the 5th shape on the grid provided below.</p>  <p>(b) Calculate the area of the 7th shape when the pattern is continued.</p> <p>Answer _____ cm²</p>		

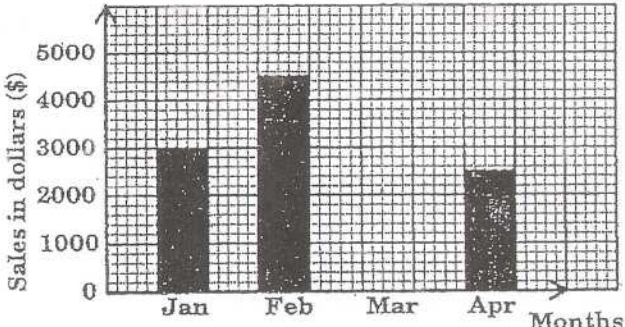
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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
46.	<p>The arrow in the compass shown below is pointing to NE.</p>  <p>The arrow moves clockwise from NE (through E) for $\frac{3}{4}$ of a complete turn.</p> <p>(a) To which letter(s) is the arrow now pointing?</p> <p>Answer _____</p> <p>(b) Through what angle, in degrees, does the arrow turn?</p> <p>Answer _____</p>		

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No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
47.	<p>The diagram below shows the positions, A and B, of a triangle.</p>  <p>Describe COMPLETELY the movement of the triangle from A to B.</p> <p>Answer _____</p> <p>_____</p> <p>_____</p>		
48.	<p>The following diagram shows two sides of an incomplete shape.</p>  <p>Complete the shape shown in the diagram by connecting suitable dots to form a quadrilateral with opposite sides equal and parallel.</p>		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here												
49.	<p data-bbox="267 466 860 507">Students in Santa Flora Primary School</p> <table border="1" data-bbox="300 528 828 839"><thead><tr><th>Class</th><th>Number of Students</th></tr></thead><tbody><tr><td>STD 1</td><td>40</td></tr><tr><td>STD 2</td><td>36</td></tr><tr><td>STD 3</td><td>38</td></tr><tr><td>STD 4</td><td>42</td></tr><tr><td>STD 5</td><td>40</td></tr></tbody></table> <p data-bbox="267 901 868 1025">Santa Flora Primary School has 35 desks. Each desk can seat 2 students. How many MORE similar desks are needed in order to seat ALL the students from Standard 1 to Standard 5?</p> <p data-bbox="487 1077 868 1118">Answer _____</p>	Class	Number of Students	STD 1	40	STD 2	36	STD 3	38	STD 4	42	STD 5	40		
Class	Number of Students														
STD 1	40														
STD 2	36														
STD 3	38														
STD 4	42														
STD 5	40														

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here										
50.	<p>The incomplete diagram below shows the monthly sales of scooters for the months January to April.</p> <p style="text-align: center;">Sales of Scooters</p>  <table border="1" data-bbox="289 630 909 955"><caption>Sales of Scooters</caption><thead><tr><th>Month</th><th>Sales in dollars (\$)</th></tr></thead><tbody><tr><td>Jan</td><td>3000</td></tr><tr><td>Feb</td><td>4500</td></tr><tr><td>Mar</td><td></td></tr><tr><td>Apr</td><td>2500</td></tr></tbody></table> <p>The mean monthly sale for the period, January to April, is \$3 000.</p> <p>(a) Calculate the TOTAL sales for the period.</p> <p style="text-align: center;">Answer _____</p> <p>(b) Complete the diagram by drawing the bar for the month of March.</p>	Month	Sales in dollars (\$)	Jan	3000	Feb	4500	Mar		Apr	2500		
Month	Sales in dollars (\$)												
Jan	3000												
Feb	4500												
Mar													
Apr	2500												

END OF TEST

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