

TEST CODE **043401**

**FORM SEA/2004**

MARCH 2004

**CARIBBEAN EXAMINATIONS COUNCIL**

**Nº 07088**

**TRINIDAD AND TOBAGO**

**Nº 07088**

**SECONDARY ENTRANCE ASSESSMENT**

**MATHEMATICS**

*75 minutes*

**PRIMARY  
SCHOOL:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
**CENTRE NUMBER:** \_\_\_\_\_

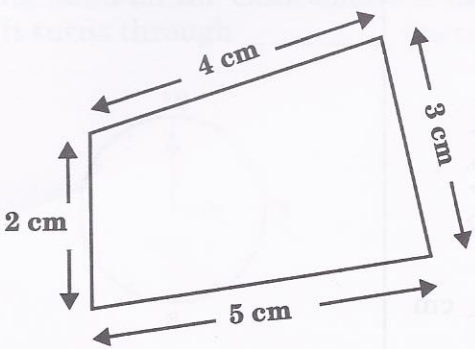

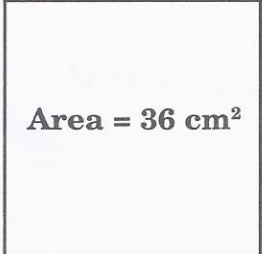
**READ THE FOLLOWING INSTRUCTIONS CAREFULLY.**

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.**

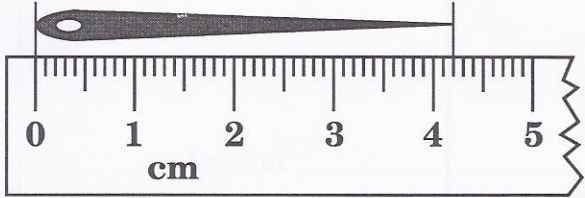
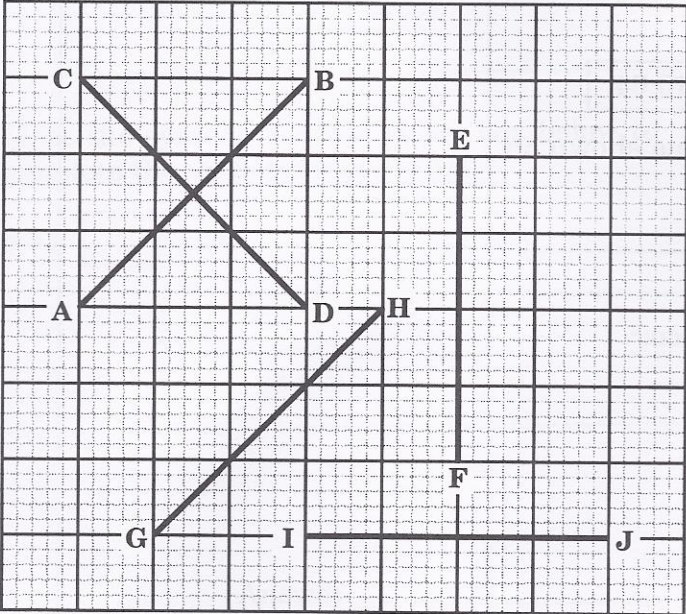
SECTION I

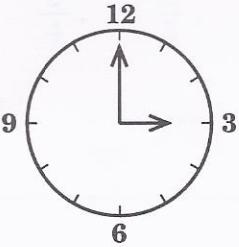
EACH question in this section is worth 1 mark.

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
1.	$\begin{array}{r} 2\ 978 \\ - 1\ 404 \\ \hline \\ \hline \end{array}$ <p>Answer _____</p>		
2.	<p>Write in figures: ten thousand and twelve.</p> <p>Answer _____</p>		
3.	<p>What is the LARGEST number that can be formed using the digits 2, 3, 4 and 6?</p> <p>Answer _____</p>		
4.	<p>Write the symbol, &gt; or &lt;, in the box below to complete the statement correctly.</p> <p>0.12 <input type="text"/> 1.20</p> <p>Answer _____</p>		
5.	$5\frac{3}{9} + 7\frac{1}{9} =$ <p>Answer _____</p>		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
6.	<p>Calculate the perimeter of the shape below.</p>  <p>Answer _____ cm</p>		
7.	 <p>4:10    10:20    4:30    10:04</p> <p>Choose from the box above, the time shown on the clock.</p> <p>Answer _____</p>		
8.	<p>The area of the square below is <math>36 \text{ cm}^2</math>.</p>  <p>What is the length of EACH side?</p> <p>Answer _____ cm</p>		




No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
9.	<p>State the length of the needle shown below.</p>  <p>Answer _____ cm</p>		
10.	<p>Complete the statement below.</p> <p><math>\frac{1}{8}</math> kg = _____ g</p> <p>Answer _____ g</p>		
11.	<p>The diagram below shows five lines, AB, CD, EF, GH and IJ.</p>  <p>Which of the lines is PARALLEL to AB?</p> <p>Answer _____</p>		

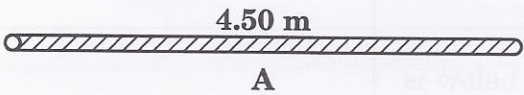
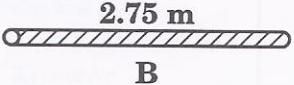
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here												
12.	<p>The long hand on the clock makes a complete turn. It turns through _____ degrees.</p>  <p>Answer _____</p>														
13.	<p>What number is missing from the table below?</p> <table border="1" data-bbox="228 1058 911 1388"><thead><tr><th>FLAVOUR</th><th>TALLY</th><th>FREQUENCY</th></tr></thead><tbody><tr><td>Vanilla</td><td>    </td><td>4</td></tr><tr><td>Rum and raisin</td><td>        </td><td></td></tr><tr><td>Chocolate</td><td>          </td><td>11</td></tr></tbody></table> <p>Answer _____</p>	FLAVOUR	TALLY	FREQUENCY	Vanilla		4	Rum and raisin			Chocolate		11		
FLAVOUR	TALLY	FREQUENCY													
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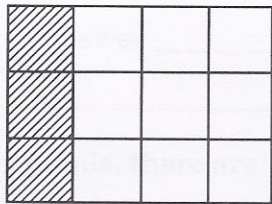


**SECTION II**

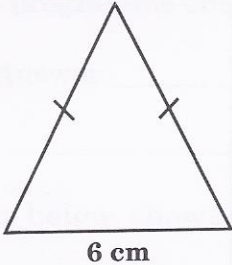
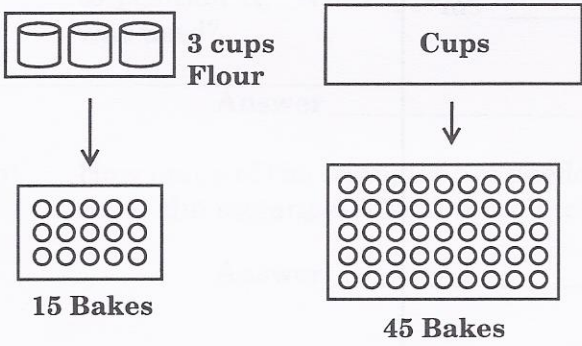
**EACH question in this section is worth 2 marks.  
Show ALL your working in the working column.**

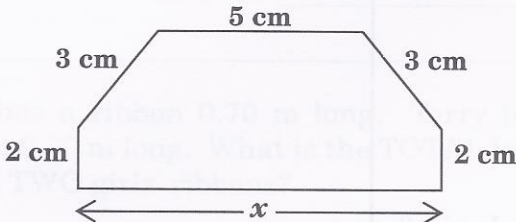

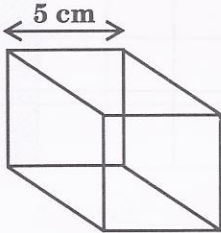

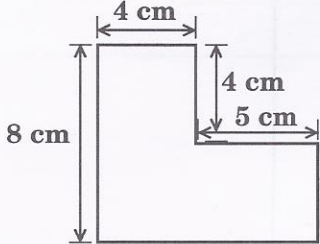
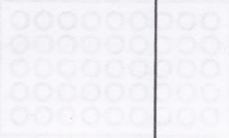
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here										
14.	Add $\frac{1}{3}$ and $\frac{1}{4}$  Answer _____												
15.	Emile took 5 minutes to solve a problem. Kwame took $6\frac{3}{4}$ minutes to solve the same problem. How much MORE time than Emile did Kwame take?  Answer _____ minutes												
16.	In a class of 24 pupils, there are 15 girls. What fraction are boys?  Answer _____												
17.	The table below shows how pupils get to school. <table border="1" data-bbox="321 1495 912 1772"><thead><tr><th>How pupils get to school</th><th>No. of pupils</th></tr></thead><tbody><tr><td>Bus</td><td>102</td></tr><tr><td>Maxi-Taxi</td><td>215</td></tr><tr><td>Private Cars</td><td>172</td></tr><tr><td>Walk</td><td>_____</td></tr></tbody></table> <p>There are 600 pupils in the school. How many pupils walk to school?</p> Answer _____	How pupils get to school	No. of pupils	Bus	102	Maxi-Taxi	215	Private Cars	172	Walk	_____		
How pupils get to school	No. of pupils												
Bus	102												
Maxi-Taxi	215												
Private Cars	172												
Walk	_____												

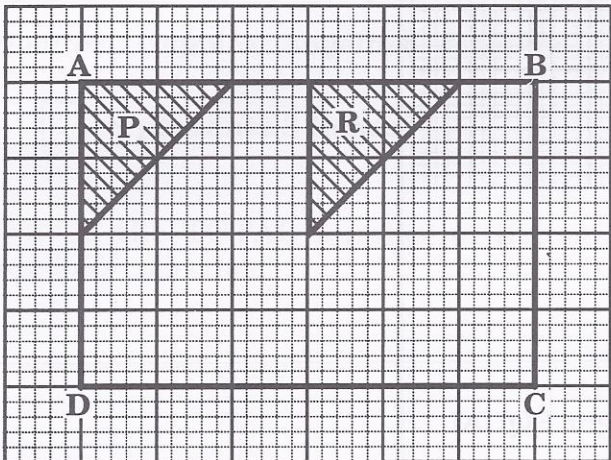
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
18.	<p>Write the following fractions in order of size beginning with the SMALLEST.</p> $\frac{3}{4}, \quad \frac{2}{5}, \quad \frac{1}{2}$ <p>Answer _____</p>		
19.	<p>A plumber bought 2 lengths of pipes, A and B, as shown below.</p> <p style="text-align: center;"></p> <p style="text-align: center;"></p> <p>How much longer is A than B?</p> <p>Answer _____ m</p>		
20.	<p>Complete the following sequence.</p> <p>2, 3, 5, 8, 12, _____, _____.</p> <p>Answer _____</p>		
21.	<p>Lee had \$40.00. He gave his sister 60% of the amount. How much money did Lee's sister receive?</p> <p>Answer \$ _____</p>		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
22.	<p>Julia played 20 tennis matches. She won 6, drew 6 and lost all of the others. What <b>percentage</b> of the matches did she lose?</p> <p>Answer _____</p>		
23.	<p>Kim has a ribbon 0.70 m long. Terry has a ribbon 0.50 m long. What is the <b>TOTAL</b> length of the <b>TWO</b> girls' ribbons?</p> <p>Answer _____</p>		
24.	<p>The shaded portion of the wall shown below is tiled. What <b>percentage</b> of the wall is tiled?</p>  <p>Answer _____</p>		
25.	<p>A worker from the telephone company collected 34 twenty-five-cent coins from a pay phone. Write the <b>TOTAL</b> amount collected in dollars and cents.</p> <p>Answer \$ _____</p>		
26.	$\begin{array}{r} \text{m} \quad \text{cm} \\ 5 \quad 98 \\ + 6 \quad 42 \\ \hline \\ \hline \end{array}$ <p>Answer _____</p>		

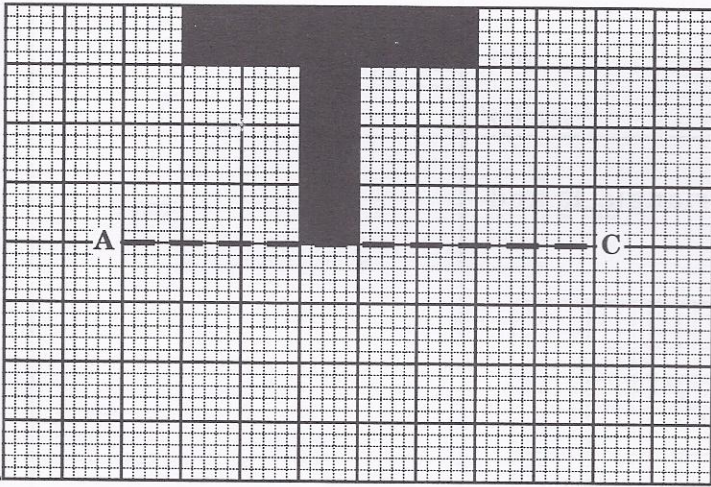
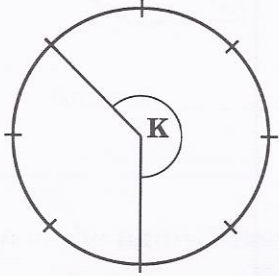


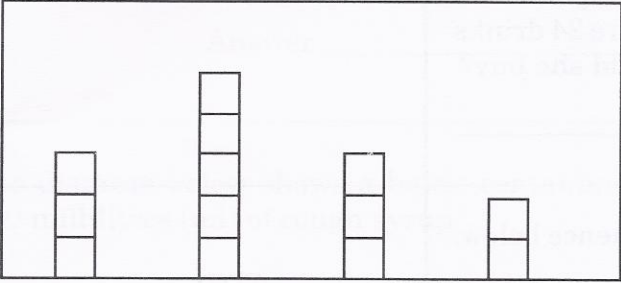
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
27.	<p>The perimeter of the <b>isosceles</b> triangle below is 26 cm.</p>  <p>What is the length of ONE of the marked sides?</p> <p>Answer _____ cm</p>		
28.	<p>A rectangular table top is 4.5 m long and 3 m wide. Calculate its area.</p> <p>Answer _____ m<sup>2</sup></p>		
29.	<p>3 cups of flour-mix can make 15 fried bakes of the same size. How many cups of flour will make 45 of these fried bakes?</p>  <p>Answer _____</p>		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
30.	<p>The perimeter of the given polygon is 25 cm. Find the length of the side marked <math>x</math>.</p>  <p>Answer _____ cm</p>		
31.	<p>Find the volume of the cube below.</p>  <p>Answer _____ <math>\text{cm}^3</math></p>		
32.	<p>Find the area of the figure below.</p>  <p>Answer _____ <math>\text{cm}^2</math></p>		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
33.	<p>A radio programme starts at 3:20 p.m. and ends two hours and thirty minutes later. At what time does the programme end?</p> <p>Answer _____ pm</p>		
34.	<p>The diagram below shows triangle P and triangle R.</p>  <p>(a) The triangle was moved from position P to position R. What type of movement was used?</p> <p>Answer _____</p> <p>(b) How many of the triangles are needed to cover the rectangle ABCD completely?</p> <p>Answer _____</p>		



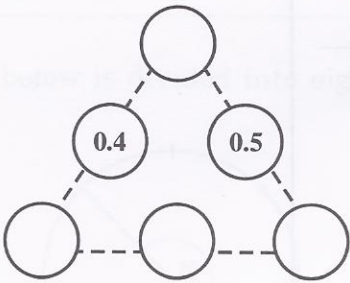
No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
35.	<p data-bbox="284 367 950 472">Flip the shaded shape below about the dotted line, AC. Show the result on the grid provided below.</p>  <p data-bbox="511 1081 941 1123">Answer _____</p>		
36.	<p data-bbox="284 1228 941 1291">The circle below is divided into eight EQUAL parts.</p>  <p data-bbox="284 1606 852 1648">What is the size of the angle labelled K?</p> <p data-bbox="511 1680 941 1722">Answer _____</p>		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
37.	<p>The graph below shows Brandon's fish collection.</p> <p style="text-align: center;"><b>Brandon's Fish Collection</b></p>  <p style="text-align: center;"><b>Goldfish Guppies Angelfish Fighters</b></p> <p><input type="checkbox"/> represents 3 fishes</p> <p>What is the TOTAL number of fishes in Brandon's collection?</p> <p style="text-align: right;">Answer _____</p>		

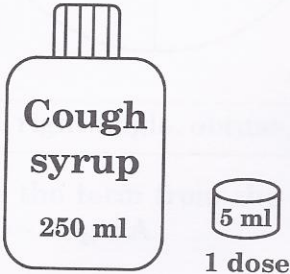
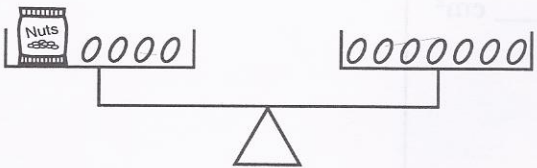


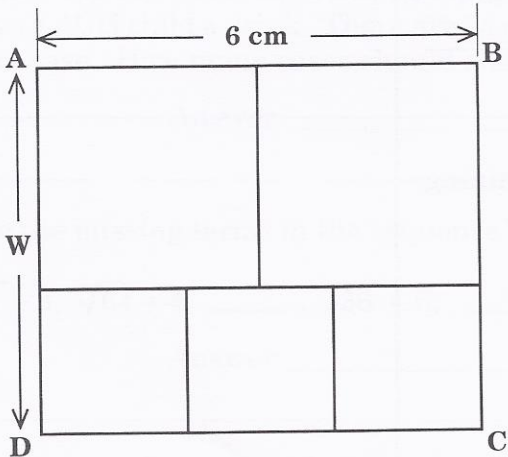
**SECTION III**

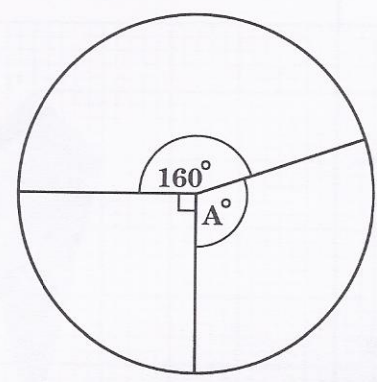
**EACH question in this section is worth 3 marks.  
Show ALL your working in the working column.**

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
38.	<p>A school has 495 children. The Principal wants to give EACH child a drink. There are 24 drinks in one case. How many cases should she buy?</p> <p>Answer _____</p>		
39.	<p>Write the missing terms in the sequence below.</p> <p><math>\sqrt{81} + 3</math>, <math>\sqrt{64} + 4</math>, _____, <math>\sqrt{36} + 6</math>, _____ + 7</p> <p>Answer _____</p>		
40.	<p>Write the numbers 0.1, 0.2, 0.3 and 0.6 in the circles on the sides of the triangle below. The sum of the numbers on EACH side of the triangle MUST total 0.9.</p> 		
41.	<div style="border: 2px solid black; padding: 10px; text-align: center;"> <p><b>Smart Stores</b></p> <hr/> <p><b>DOUBLE "10" SALE!</b>  <b>10% off the marked price and</b>  <b>another 10% off the reduced price!</b></p> </div> <p>Smart Stores offer the discount as shown above. Before the discount, the cost of a book is \$100. How much does the book cost after the discount?</p> <p>Answer \$ _____</p>		





No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
42.	<p>Dave left home at 3:30 p.m. and returned at 6:20 p.m. How much time, in hours and minutes, was he away from home?</p> <p>Answer _____</p>		
43.	<p>The diagram below shows a bottle containing 250 millilitres (ml) of cough syrup.</p> <div data-bbox="428 823 716 1094" style="text-align: center;"><p>Cough syrup 250 ml</p><p>5 ml 1 dose</p></div> <p>Don took 2 doses per day for 5 days. If each dose is 5 ml, how many millilitres of the cough syrup remained?</p> <p>Answer _____ ml</p>		
44.	<p>The diagram below shows a balanced scale with some jelly beans and a packet of nuts.</p> <div data-bbox="313 1541 846 1707" style="text-align: center;"><p>Nuts</p><p>0000</p><p>00000000</p></div> <p>Each jelly bean weighs 8 grams. What is the mass of the packet of nuts?</p> <p>Answer _____</p>		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
45.	<p>Rectangle ABCD below is made with two large identical squares and three small identical squares as shown in the diagram below.</p>  <p>(a) Calculate the length of EACH of the sides of the small squares.</p> <p>Answer _____ cm</p> <p>(b) What is the width, <b>W</b>, of the rectangle ABCD?</p> <p>Answer _____ cm</p> <p>(c) Calculate the area of the rectangle ABCD.</p> <p>Answer _____ cm<sup>2</sup></p>		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
46.	<p>The angle A is marked in the diagram below.</p>  <p>acute, right angle, obtuse, reflex</p> <p>(a) Choose the term from the box that best describes angle A.</p> <p>Answer _____</p> <p>(b) Calculate the size of angle A.</p> <p>Answer _____</p>		



No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
47.	<p>Jagdeo used two palette sticks, A and B, to form the angle shown below.</p>  <p>He turns stick B about O so that a new angle is formed.</p> <p>(a) Complete the diagram below by drawing the new position of stick B when the size of the angle reaches <math>135^\circ</math>.</p>  <p>(b) What is the size of the turn, in degrees, made by stick, B?</p> <p>Answer _____</p>		

No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here
48.	<p>The diagram below shows the positions P and Q of a shaded figure.</p> <p>flip                      rectangle slide                     parallelogram turn                        quadrilateral mirror</p> <p>Choose the correct terms from the box above to complete EACH statement below.</p> <p>(a) Sue moves the figure from its position at P to the position Q using TWO movements. The two movements are _____ and _____.</p> <p>(b) The figure has four sides as shown in the diagram. The figure is a _____.</p>		



No.	TEST ITEMS	WORKING COLUMN	Do Not Write Here																
49.	<p>The bar chart below represents the amount of money Carmen spends in a week.</p> <table border="1"><caption>Money Spent by Carmen</caption><thead><tr><th>Day</th><th>Money Spent (dollars)</th></tr></thead><tbody><tr><td>Sun</td><td>0</td></tr><tr><td>Mon</td><td>10</td></tr><tr><td>Tue</td><td>5</td></tr><tr><td>Wed</td><td>12</td></tr><tr><td>Thur</td><td>15</td></tr><tr><td>Fri</td><td>18</td></tr><tr><td>Sat</td><td>0</td></tr></tbody></table> <p>At the beginning of the week, Carmen had \$75.00. How much money did she have left at the end of the week?</p> <p>Answer \$ _____</p>	Day	Money Spent (dollars)	Sun	0	Mon	10	Tue	5	Wed	12	Thur	15	Fri	18	Sat	0		
Day	Money Spent (dollars)																		
Sun	0																		
Mon	10																		
Tue	5																		
Wed	12																		
Thur	15																		
Fri	18																		
Sat	0																		
50.	<p>The mean age of a group of three friends is 12. Sharon, age 8, joins the group. What is the mean age of the group now?</p> <p>Answer _____</p>																		

END OF TEST

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