Name: _____ Index No.:_____

8011/2
ECDE CERTIFICATE PROFICIENCY   Candidate's Signature: _____
ARITHMETIC
December 2010   Date:_____
Time: 1 hour

THE KENYA NATIONAL EXAMINATIONS COUNCIL

EARLY CHILDHOOD DEVELOPMENT AND EDUCATION CERTIFICATE PROFICIENCY EXAMINATION

ARITHMETIC

1 hour

INSTRUCTIONS TO CANDIDATES

Write your name and index number in the spaces provided above.
Sign and write the date of examination in the spaces provided above.
Answer ALL the questions in this paper.
All answers must be written in the spaces provided in this booklet.
Do not remove any pages from this booklet.

For Official Use Only

Maximum Score	Candidate's Score
40	

This paper consists of 7 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

Turn over

1.   What is 289 116 943 in words?   (1 mark)
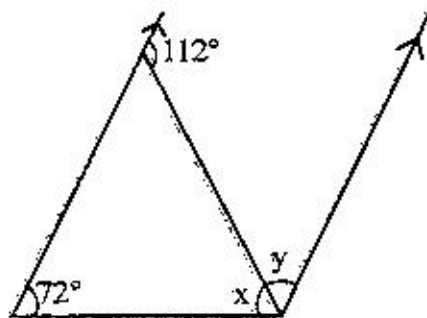
2.   Given that a = 3 b = 1 and c = 2. What is

$$\frac{a - b^2}{4 - 2b + c}$$ in its simpliest form.   (2 marks)

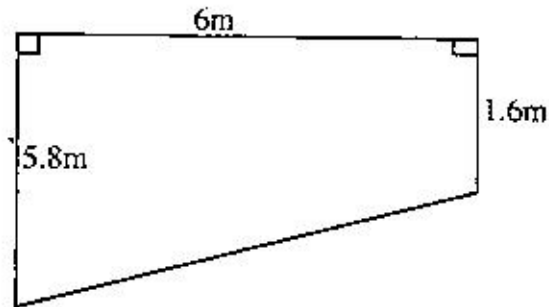3.   In the diagram below, find the value of angles x and y.

(3 marks)

4. The length of a rectangle is $(3x+1)$ cm. Its width is 3 cm shorter than its length. Given that the perimeter of the rectangle is 22 cm. What is its length? (3 marks)

5. Betty earns a basic salary of sh.8450 per month. She is paid a commission of 4% on sales above sh.10000. In a certain month she earned a total income of sh.14800. What was her total sales for that month. (3 marks)

6. What is $\frac{2}{5}(14 - 3\frac{1}{2}) \times \frac{2}{3} \div 1\frac{2}{5} + 3?$ (3 marks)

7.	The diagram below shows a cross section of a swimming pool 8 m long. Find the volume of water it can contain?
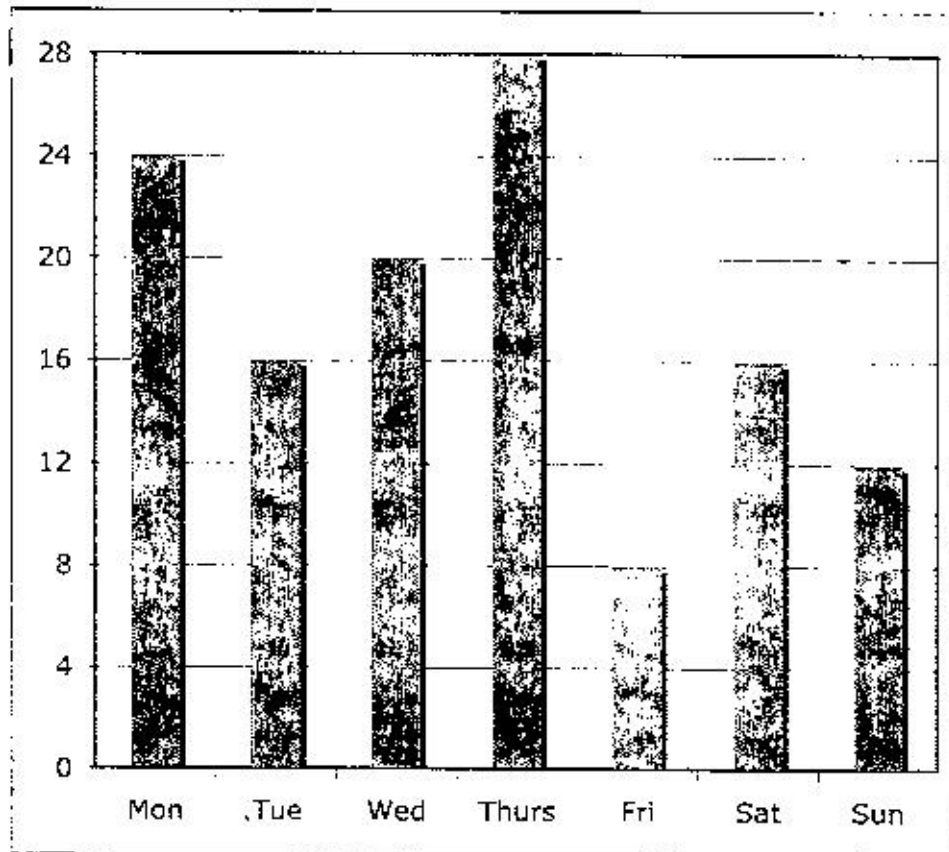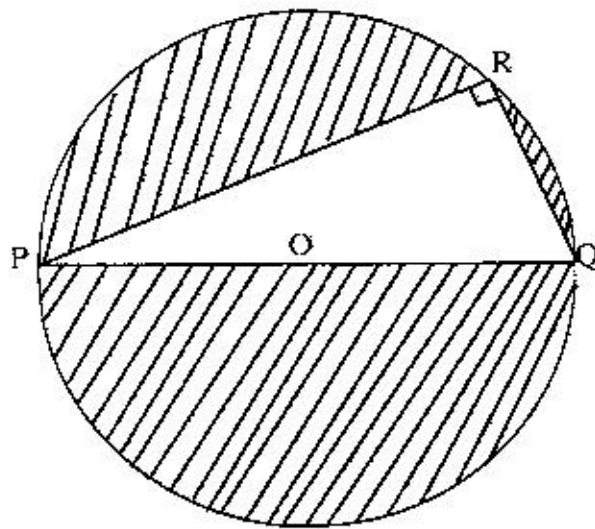

(3 marks)

8.	Solve $3 - x = 8x + 12$ (2 marks)

9.	Jane bought 5 shirts and 3 shorts paying a total of 1750 shillings, Mary bought three similar shirts and one short for 850 shillings. Find the cost of each item?	(4 marks)

10. The graph below shows the amount of milk in litres sold by a farmer in a week.

(a)   On which day did he sell the highest amount of milk?   (1 mark)

(b)   What was the total amount of milk sold during the first five days?   (1 mark)

11.   Oketch has t bananas and Mwangi has five times as many bananas as Oketch. A half of all
       the bananas is 18. How many bananas does Mwangi have?   (3 marks)

12. The distance between school A and B on a map is 3.5 cm. If the scale of the map is 1:200000, what is the actual distance between School A and B in km? (3 marks)

13. The circle drawn below has centre O and radius 6.5 cm. QR has a length of 5 cm. What is the area of the shaded region? (Correct to 2 decimal places) (4 marks)

14. The exchange rate on a particular day was 1 U.S\$ =KSH 64.38. An American tourist visiting Kenya had to convert 750 US\$ to Kenya Shillings for use. How much money in Kenya shilling did he get. (2 marks)

15. A motorcycle travels for 3 hours 40 minutes at a speed of 60 km/h. What distance does it cover?

(2 marks)