Name		Index No/
8011/2 ARITHMETIC		Candidate's Signature
December 2015		Date
Time: 1 hour		
	JENYA NATIONAL	



THE KENYA NATIONAL EXAMINATIONS COUNCIL

EARLY CHILDHOOD DEVELOPMENT AND EDUCATION

CERTIFICATE IN 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.
Candidates should answer the questions in English.

For Examiner's Use Only

Maximum Score	Candidate's Score
40	

This paper consists of 8 printed pages.

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

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Turn over



1. Find the L.C.M of the following numbers 36, 24, 40, 16.

(3 marks)

2. Evaluate

$$\frac{1}{2}$$
 of $\frac{1}{4} \div \frac{1}{8} + \frac{3}{4} - \frac{1}{8}$

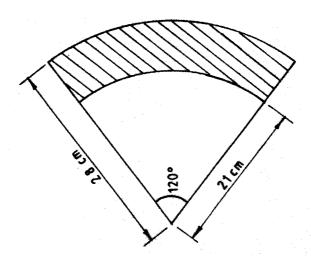
(3 marks)

3. A piece of cloth 360 cm long is cut in the ratio 9:6. Calculate the length of each piece.

(2 marks)

4. Calculate the area of the shaded part in the figure below (not drawn to scale).

(4 marks)



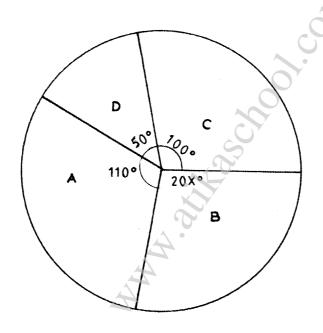
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5. Mary who runs a clothing shop bought a skirt for Ksh 500 and marked it at Ksh 600 for sale. A customer bought it at Ksh 550 after bargaining. What percentage profit did Mary get?

(3 marks)

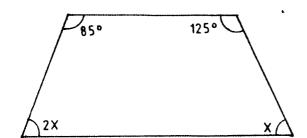
6. The pie chart below represent the number of foot ball teams in four counties A, B, C and D in Kenya.



(a) Find the value of x.

(1 mark)

(b) If the total number of teams in the four counties is 36. Find the number of teams in county **B**. (3 marks)



8. Calculate the total surface area of a closed cylinder of base radius 7 cm and a height of 21 cm. (3 marks)

	mark was 59, find the value of x .		1. If the mean
	•		(2 marks)
		0	
0.	A day in a school starts at 7.30 am and ends at 5.00 p.m.	Tag and lunch breaks	tals a total of
0.	two hours.	rea and functi bleaks	take a total of
	(a) Hamilton de de la constal d	V [*]	
	(a) How long do the lessons take?		(1 mark)
		#	
	4.0		

11. Write the following as a single fraction in its simplest form.

$$\frac{4x-6}{4} + \frac{2x-2}{3}$$

(3 marks)

12. Solve the pair of simultaneous equations:

$$2x - y = 3$$

$$7x + 2y = 16$$

(2 marks)

13. Write the place value of the digit 8 in the number.

(1 mark)

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14. A map is drawn to scale of 1:2000. A rectangular field on the map measures 2 cm by 5 cm. Find the actual dimensions on the ground in metres.

(2 marks)

- 15. Two rings of diameter 6.3 cm and 4.9 cm are cut and joined to form a new ring.
 - (a) Find the circumference of the new ring.

(2 marks)

(b) Work out the radius of the new ring.

(1 mark)

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