SET III 2018

PRIMARY SEVEN

MATHEMATICS

Time allowed: 2 hours 30 minutes

Index	No.												
Canc	Candidate's Name:												
Canc	lidate's Signature:												
Scho	ol Name:												
Read	the following instructions carefully:												
1.	The paper has two sections: A and B	FOR EXAM	IINER'S U	SE ONLY									
2.	Section A has 20 short questions (40 marks)												
3.	Section B has 12 questions (60 marks)												
4.	Answer ALL questions. All answers to both Sections A	FOR EXAMINER'S USE ONLY											
	and B must be written in the spaces provided.												
5.	All answers must be written using a blue or black ball	Qn. No	MARK	SIGN									
	point pen or ink. Diagrams should be drawn in pencil.	1 – 10											
6.	Unnecessary alteration of work may lead to loss of marks.	11 – 20											
7.	Any handwriting that cannot be easily read may lead to	21 – 30											
	loss of marks.	31 – 32											
8.	Do not fill anything in the boxes indicated for Examiner's	TOTAL											

use only.

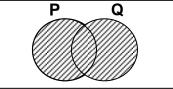
SECTION A: (40 MARKS)

1. Simplify: <u>5</u> x <u>2</u> 6 5

2. Multiply: 4 3

<u>x 2</u>

3. Describe the un-shaded part of the diagram below.

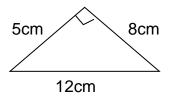


4. Convert 21_{ten} to octal base

5. Write "Forty four thousand forty." in figures

6. The average of 3 girls is 12kg, if the weight of 2 girls is 11kg each, find the weight of the 3rd girl.

- 7. Subtract: ⁻2 from ⁻6
- 8. Find the area of the figure below.



- 9. Find the next number in the sequence below. 1, 2, 6, 15, 31, ____
- 10. The cost of a dozen pencils is sh. 2400. What is the cost of a gross of similar pencils?

11. Mukisa started his journey at 10:45 a.m. and ended it at Midday. How long did the journey take?

12. Find the size of the angle marked y.

11

•

13. Find the GCF of 36 and 48.

75⁰

14. Convert 4500 g to kilograms.

15. What number is represented by the tallies //// ////?

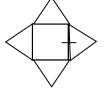
16. 3 men can paint a house in 8 days. How many <u>more</u> men are needed to paint the same house in 4 days?

17. Work out: $3 \times 2 = \pmod{5}$

18. Given that set $P = \{4, d, f, 5\}$ and set $Q = \{f, 5, 4, d\}$ find P - Q

19. Given that 3r + 2 = 14, Find the value of r.

20. Identify the solid figure whose net is shown below.



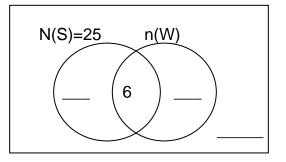
SECTION B: (60 MARKS)

1a) Maria, Max and Mercy shared money in the ratio of 2:3:5 respectively. If Max got sh. 5100, how much money did they share altogether? (2 marks)

(b) Work out:
$$\frac{4.8 \times 12}{0.3 \times 0.4}$$

(3 marks)

- 2 At a party, 25 guests took soda (S), 6 guests took both soda and water (W), 9 guests took water only while 2 guests took neither of the two.
- (a) Show the information on a venn diagram below. (3 marks)



(b) How many guests attended the party?

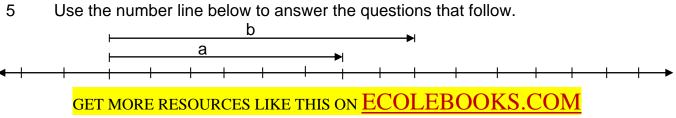
(2 marks)

- 3. Nabudere bought the following items from a market.
 - 1 ½ kg of maize flour at sh. 3000 per kg.
 - 1500 gm of sugar at sh. 4000 per kg.
 - ¼ dozen of rubbers at sh. 300 per rubber.
 - 2 kg of meat for sh. 20000
- (a) Calculate Nabudere's expenditure.

(4 marks)

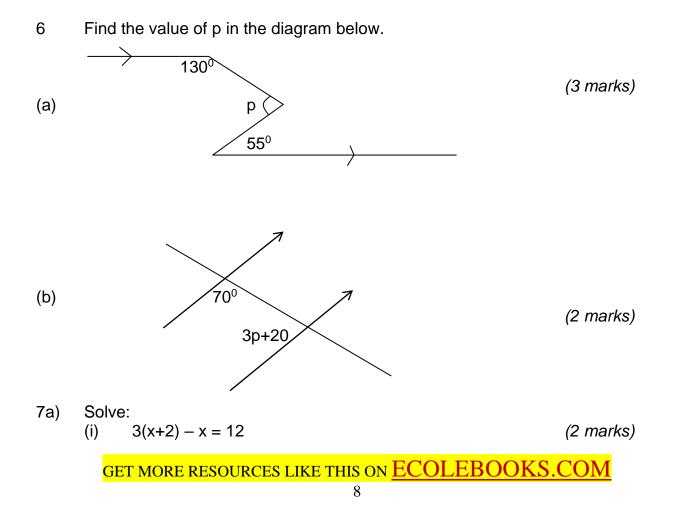
(b) If he had sh. 50000, how much money did he remain with after paying for all the items? (1 mark)

4. Using a ruler, a pencil and a pair of compasses only, construct a regular quadrilateral in a circle of radius 5cm. (5 marks)



	GET MORE RESOURCES LIKE THIS ON ECOLEBOOKS.COM																
-9	-8	-7	-6	-5	-4	-3	-2	-1 ∢-	$-\frac{0}{c}$	1 -⊣	2	3	4	5	6	7	
(a)	Find the integers represented by										(1 mark each)						
(i)	а																
(;;)	b																
(ii)	D																
(iii)	С																

(b) Write the mathematical statement shown on the number line above. (1 mark)



(ii)
$$4 - p = 3p$$
 (2 marks)

(b) Given that
$$a = 2$$
 and $b = 3$ find the value of $4(a - b)$ (2 marks)

8. Two sides of a square are (4x + 4)cm and (3x +6)cm.
(a) Find the value of x. (2 marks)

(b) Find its area

(2 marks)

(c) Find its perimeter.

(1 mark)

10

(C) Find the average mark in the test.

How many pupils did a test?

3

Score

(b)

10.

(b)

- (a) What was the modal score?
- 5 6 8 3

The table below shows scores of pupils in a test. No. of pupils

2

Increase sh. 400000 by 10% then by 20%.

Express 750ml as a percentage of 1 litre. 9a)

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(2 marks)

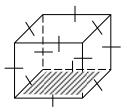
(1 mark)

(3 marks)

(1 mark)

(2 marks)

11. *The diagram below is a cube*. If the area of the shaded part is 100cm²



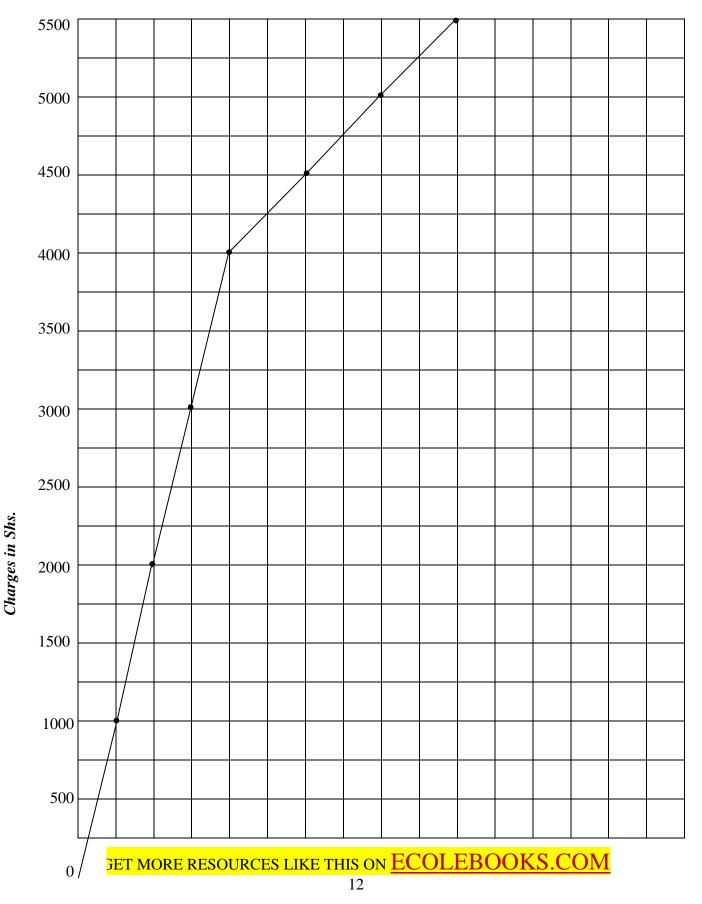
(a) Calculate its total surface area.

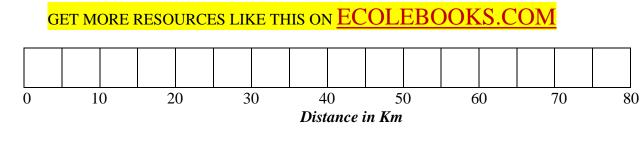
(2 marks)

(b) Find its volume in litres.

(3 marks)

12. The graph below shows bus transport charges along Kampala-Masaka Road





(a) How much will one pay for a distance of 40km? (1 mark)

(b) What is the difference in the cost for a journey of 10km and 50km? *(2 marks)*

(c) How many km will Kasulu travel if he had sh. 4000? (1 mark)

(d) Ameria travelled for a distance of 50km and her husband a distance of 30km. How much did they pay altogether? (2 marks)