NAME: _____

District: _____

Stream: _____

Date: _____

Read the following instructions carefully:

1.   **The paper is made up of section A and B.**

2.   **Section A has 20 short answer questions (40 marks).**

3.   **Section B has 12 questions (60 answers).**

4.   **Answer ALL questions. All answers to both section A and B must be written in the spaces provided.**

5.   **All answers must be written in blue ink.**

6.   **Any handwriting that cannot easily be read will lead to loss of marks.**

7.   **Unnecessary alteration of work may lead to loss of marks.**

8.   **Do not write anything in the box indicated examiner's use only.**
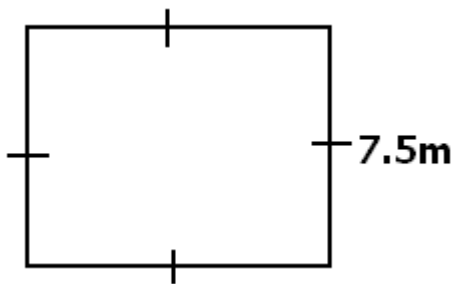
PARENT'S COMMENT	SIGNATURE

SECTION A:

1. Work out: 65 − 23

2. Write 2543 in words.

3. Work out: ⁻4 − ⁺3

4. Evaluate: $2y - 3 = 7$

5. Given that K and Q are sets. Draw a Venn diagram to represent K ∩ Q = Q.

6. Find the Greatest Common Factor (GCF) of 24 and 36.

7. Using a pair of compasses, ruler and a pencil only, construct an angle of 45º.

8. A trader sold a pair of trousers at sh.27000 making a profit of sh.1500. What was the cost price of the pair of trousers?

9. A forty-minute lesson ended at 11:20 a.m. At what time did it begin?

10. In a class of 48 pupils, $^5/_8$ of them are boys. How many girls are in the class?
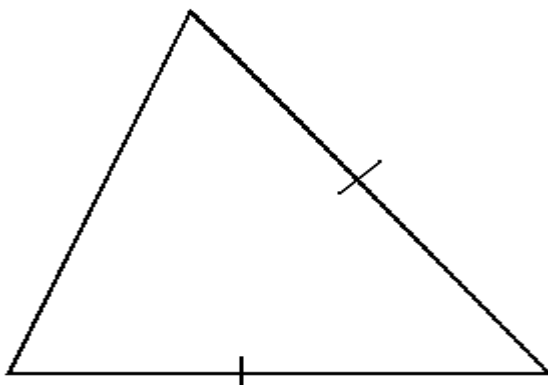
11. Find the mean of x + 8, 7 and 2x.

12. Work out the perimeter of the figure drawn below.

7.5m

13. Find the value of K in $25_k = 19_{ten}$

14. Work out the next number in the sequence: 1, 8, 27, 64, 125, _____

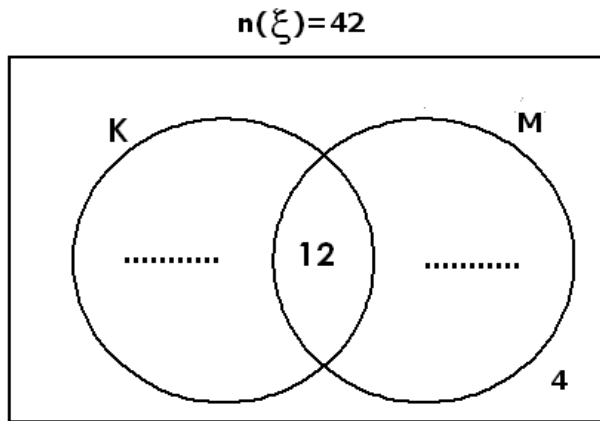15. How many lines of folding symmetry does the figure below have?

16. How many 25cm pieces of wire can be cut out from a long wire of 6.5 metres?

17. If n(A)=6, n(B)=8 and n(A∩B)=3, find n(AUB).

18. Subtract 2a + 3 from 5a − 4.

19. The probability of picking a girl in a class to go for chalk is $^3/_8$. Find the number of boys if there are 56 pupils in the class.

20. A lorry carries 243 crates of soda. If each crate container 24 bottles, how many bottles of soda does the lorry carry?

Section B

21. In a group of 42 tourists, 20 tourists visited Kidepo National Park (K), p visited Lake Mburo National Park (M), **12** visited both National Parks while 4 tourists visited neither of the two National Parks.

(a) Complete the Venn diagram below using the above information. **(2 marks)**

n(ξ)=42

(b) How many tourists visited Lake Mburo National park? **(2 marks)**

(c) Find the number of tourists who visited only one park. **(1 mark)**

22. The table below shows Ms. Arinaitwe's shopping bill.

ITEM	PRICE	COST
2 Kg of meat	Sh.8000	Sh.........................
1 ½ Kg of Rice	Sh.....................	Sh.4800
.... Litres of oil	Sh. 2400 per litre	Sh.7200
	TOTAL EXPENDITURE	Sh...........................

(a)   Complete the table above.   **(4 marks)**

(b)   If she remained with sh. 7,000, how much money did she have at the beginning?
                                                                           (1 mark)

23.   A book factory makes 87600 books in a day.

(a)   How many books altogether does the factory make a week if it only works for 5
       days every week?   **(2 marks)**

(b)   Calculate the number of dozen of books the factory makes every week.

                                                                           (2 marks)

(c)   If each book costs sh.500, how much money does the factory get after selling all

       the books produced in a day?   **(2 marks)**

24(a) Using a pair of compasses, a ruler and a pencil only, construct a triangle DEF where DE = 7cm, angle FDE = 90° and DF = 8cm. **(4 marks)**

(b)   Measure the length EF. **(1 mark)**

25.   A tank is $^5/_8$ full of water. When 350 litres of water are added to the tank, the tank becomes $^4/_5$ full. How many litres does it contain when it is $^3/_{10}$ full?
(5 marks)

26(a) If m = 7, n = 5 and p = 6, evaluate $\dfrac{m^2 + n}{p}$. **(2 marks)**

(b) Calvin is twice as old as Terry. How old is Terry if their total age is 24 years?

(2 marks)

27. A bus traveled for 3 hours at a constant speed of 60km/hr and broke down. The repairs took 30 minutes then the bus continued with its journey at a speed of 90 Km/hr for 1 ½ hours. Find its average speed for the whole journey. **(6 marks)**
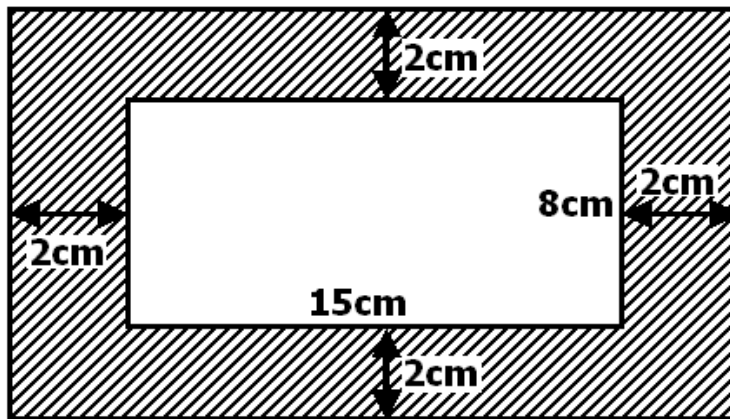
28. The table below shows the marks scored by the pupils in Mid Term III exams. Use it to answer the questions that follow.

Marks scored	85	70	80	75
Number of pupils	2	3	1	4

(a) How many pupils did the exam? **(2 marks)**

(b)   What was their modal mark?   **(1 mark)**

(c)   Work out their average mark.   **(3 marks)**

29.   Given the digits; 4 , 0 , 3 and 9.

(a)   Form the largest number using all the digits.   **(1 mark)**

(b)   Write down the smallest number formed by all the above digits.   **(1 mark)**

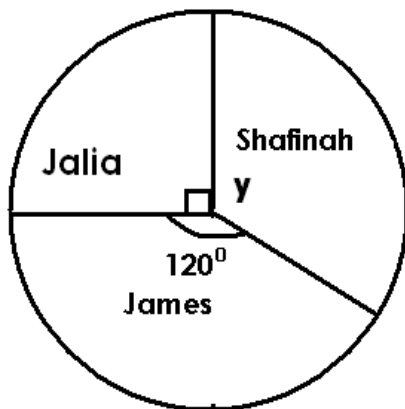(c)   What is the difference between the biggest and the smallest number? **(2 marks)**

30. Study the diagram below and use it to answer the questions about it.

(a) Find the area of the inner rectangle. **(1 mark)**

(b) Work out the area of the outer rectangle. **(3 marks)**

(c) Calculate the area of the shaded part. **(1 mark)**

31. In a school, two bells are used. One rings every after 40 minutes and another rings every after 50 minutes.

(a) After how many minutes will the two bells ring together? **(2 marks)**

(b)   If the two bells ring together at 7:00a.m, at what time will the two bells ring together again?   **(2 marks)**

32.   The pie chart below shows how a certain amount of money was shared among Jalia, James and Shafinah. Use it to answer the questions that follow.

(a)   Find the value of y.   **(2 marks)**

(b)   If Shafinah got sh.75,000, how much money did they share altogether? **(2 marks)**

(c)   Find the amount Jalia got.   **(1 mark)**