THE SPECTRUM EXAMINATIONS HUB
BEGINNING OF TERM III EXAMINATIONS, 2024
P.6 MATHEMATICS
TIME ALLOWED: 2 HRS 15 MINUTES

Pupil's name………………………………………………………………

School name………………………………………………………………

<u>Read the following instructions carefully:</u>

1. This paper has two sections: A and B

2. Answer all questions. All answers to both sections A and B must be written in the spaces provided.

3. Answers must be written using a blue or blackball point pen or ink. Any pencil work will not be marked.

4. Unnecessary changes in your work and handwriting that cannot be easily read may lead to loss of marks.

5. Do not fill anything in the table indicated; "For examiners' use

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SECTION A

1. Work out :

$$\begin{array}{r} 2\ 4 \\ \times\ \ 4 \\ \hline \\ \hline \end{array}$$
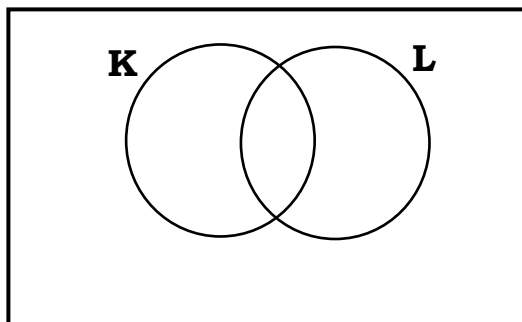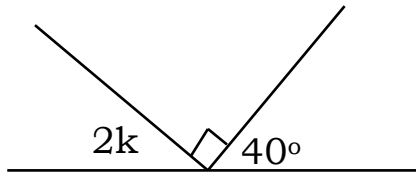
2. Write CLV in words

3. Solve for x: $2x - 3 = 9$

4. Convert 1001_{two} to base five.

5. Construct an angle of 135^0.

6. Shade $(K - L)'$ in the figure below.

7. Find the value of angle.

8. Simplify $^+5 + {}^-7$.

9. Change 7km to m.

10. Work out: $\dfrac{3}{4} + \dfrac{2}{5}$

11. Find the sun of the next two numbers in the sequence.

    2, 3, 5, 7, ____, ____

12. Decrease sh.600 in the ratio of 2:3.

13. Given that represents 8 tomatoes. Draw pictures to represent 56 tomatoes

14. The cost of 6 apples is shs.4,200. How many apples will Kimuli buy with sh.2,800?

15. Spectrum community School Van travels at a speed of 80km/hr for 2 hours. Find the distance covered.

16. How many subsets are in set A if A= S{2, 3, 4, 5}?

17. Find the perimeter of the figure below.

6cm

10cm
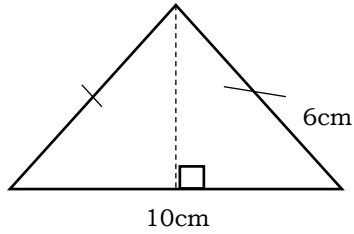
18. Round off 2768 to the nearest hundreds.

19. Bulemezi Farm Enterprises supplied only 1353 chicks equally to eleven households. How many chicks did each household get?

20. How many $1\frac{1}{4}$ litre cups of milk can be got from a 20 litre jerrycan?

21. In a class of 70 pupils, 40 pupils like Maths (M), X pupils like both Maths and English, 35 pupils like English(E), while 5 pupils like neither of the two subjects.

   (a) Complete the Venn diagram below.

   (03 marks)
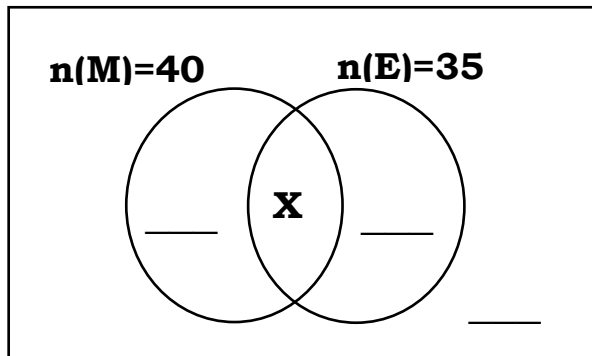
   (b) How many pupils like only one subject? *(02 marks)*

22. (a) Given that M=P=4 and K=6. Find the value of;
   (i)   M P K *(02 mark)*

   (ii)   MP – K *(02 marks)*

23. Blessing, Elijah and Sauya shared shs.90,000 in the ratio of 2:5:3 respectively.
    (a) How much money did each get?   *(03 marks)*

    (b) Find how much less money did Blessing get that Elijah.
                                                       (01 mark)

24. Katumba scored the following marks in the Mid term Examinations.
        80, 60, 40, 50, 70, 60

    (a) Find the modal mark.   *(01 marks)*

    (b) Calculate for his range mark.   *(01 mark)*

    (c) What is her median mark?   *(01 mark)*

    (d) Workout the mean mark.   *(02 marks)*

25. (a) The sum of three consecutive counting numbers is 36.
        Find the numbers. (*03 marks)*

    (b) The LCM of two numbers is 120 and their GCF is 10. If one of the
        number is 40, Find the other number. *(02 marks)*

26. Given the number 19632.
    (a)   Write the number in words. *(03marks)*

    (b)   Find the quotient of the value of 9 and the value of 3 in the above
          number. *(03 marks)*

27. Brandon went to the market with sh.40,000/= and bought the
    following items.
            2kg of meat at shs. 12,000 per kg.

            1 ½ kg of rice at shs.4,000 per kg.

            2kg of beans at shs. 7,000.

            500g of salt at sh.1,000 per kg.

(a)   Find his total expenditure.   *(04 marks)*

(b)   If he was given a discount of sh.2,500 how much did he pay?
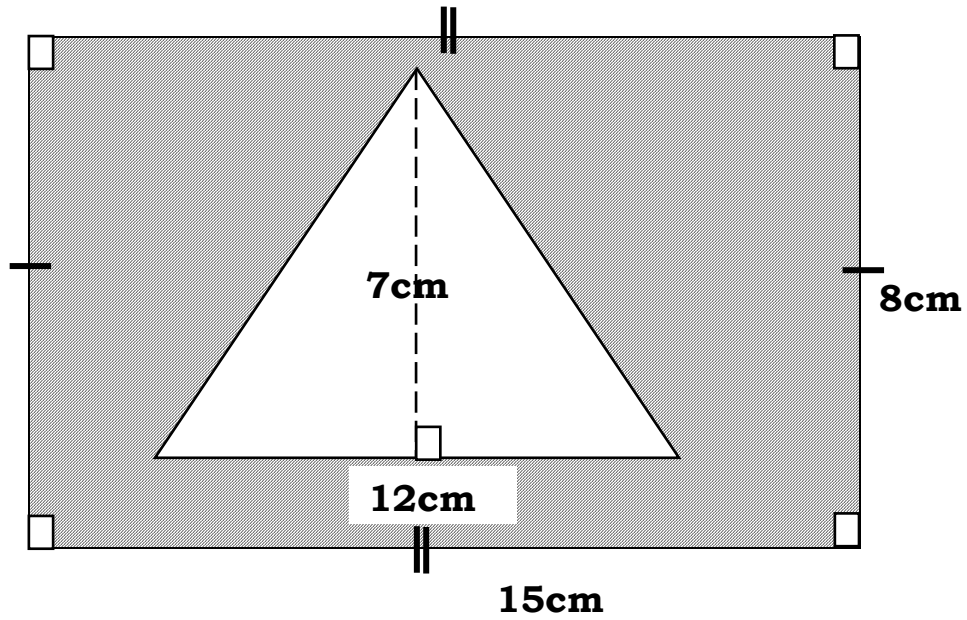*(02 marks)*

28.   Using a ruler, a pencil and a pair of compasses only;
   (a)   Construct a triangle in a circle of radius 3cm.   *(04 marks)*

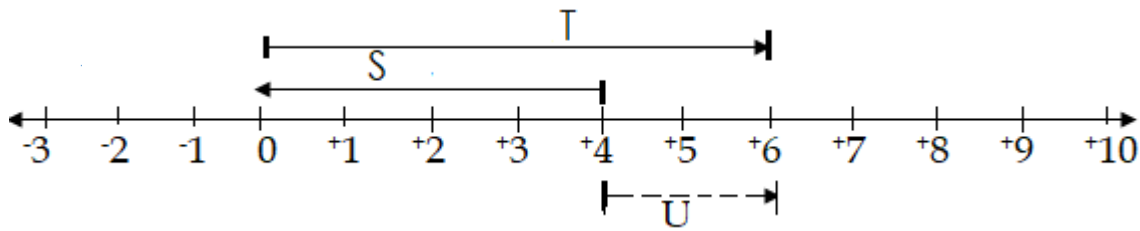(b)   Measure its side.   *(01 marks*

29. Study the figure below and use it to answer the questions about it.

(a) Find the area of the inner figure.

(b) Find the area of the shaded part.

30. Use the number line below to answer the questions that follow.

(a) Write down the integers represented by the arrows. *(03 marks)*

(i) S = _____

(ii) T = _____

(iii) U= _____

(b) Write a mathematical statement for the above. *(02 marks)*

31. (a) Simplify: $\dfrac{0.3 \times 0.04}{0.6}$ *(03 marks)*

(b) Brighton covered $\dfrac{1}{4}$ of the journey by bus, $\dfrac{1}{6}$ by taxi and he walked the remaining 28 km.

What distance did he cover altogether? *03 marks)*

32. The table below shows the marks scored by Raymond in Beginning of Term 2 exams. Study it carefully and use it to draw a pie-chart of radius 3cm.

subject	ENG	MTC	SCI	SST
Marks	60	90	80	70

(05 mark)

END