

HORMISDALLEN SCHOOL - KYEBANDO
PRE-PLE SET 9 EXAMINATION, 2023
PRIMARY SEVEN MATH
Duration: 2 Hours 15 Minutes

NAME: _____ STREAM: _____

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SECTION A (40 MARKS)

Questions 1 to 20 carry two marks each

1. Work out:

$$\begin{array}{r} 6 \\ - 6 \\ \hline \\ \hline \end{array}$$

2. Given that set $J = \{a, b, c, d, e\}$ and $K = \{a, e, t, o, u\}$.

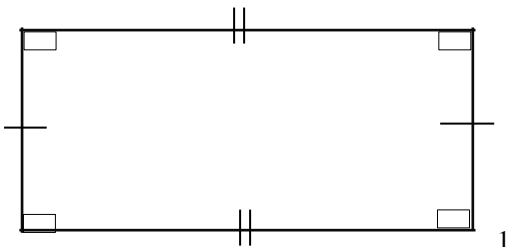
Find $J - K$

3. Simplify: $6h + 5h - h$

4. Arrange the following numbers beginning with the smallest.
 $2, -3, 0, -5, 1$

5. Work out: $\frac{3}{4} \div \frac{1}{2}$

6. Show all the lines of folding symmetry of the figure below.

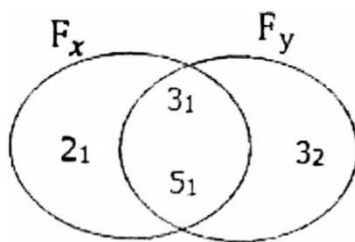


7.A P.E lesson started at **8:20** am and lasted $\frac{2}{3}$ of an hour. At what time did it end?

8.Given that $30_x = 15$, find the value of the base marked x .

9. The Venn diagram below shows the prime factors of x and y .

Use it to answer the question that follows



Find the Highest Common Factor of x and y .

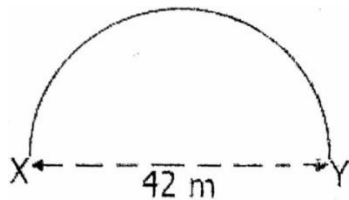
10. Find **40** percent of **40**.

11.Express **7:35** pm to a 24-hour clock system.

12.Simplify: $-14 - -6$

13. Express **XVIII** to Hindu Arabic numerals.

14. Find the length of the arc **XV** in the diagram below.



15. Solve: $m - 2 = 5$ (Finite 7).

16. Buyinza bought **0.025 kg** of tea leaves. Express this quantity as grams?

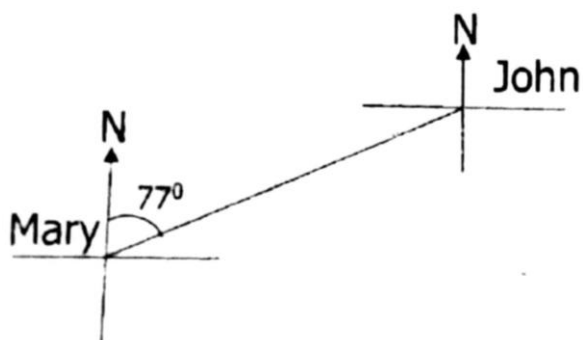
17. The table below shows the number of votes obtained by 3 candidates in a prefects' election. Complete the table with the missing information.

Name	Tally	Number of votes
Mutesi		16
Akello		19
Kaboyo		

18. Given that $a = 3$ and $b = 1$, find the value of $a^2 + b^2$.

19. Mwine sold a hen for **Sh.24,000** making a profit of **Sh.6,000**. Find the cost price of the hen.

20. Find the bearing of Mary from John in the diagram below.

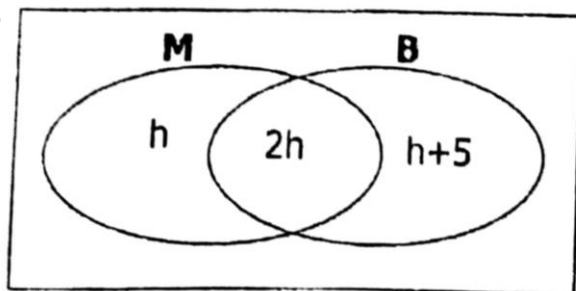


SECTION B: 60 MARKS

Answer all questions in this section

Marks for each Question are indicated in the brackets.

21. The Venn diagram below represents the number of farmers who grow maize (M) and beans (B).



Given that 24 farmers grow both maize and beans;

(a) Find the value of h . (2 marks)

(b) If a farmer is picked at random, find the probability that the farmer grows only one of the mentioned crops. (3 marks)

22. (a) Multiply: 2.5 by 1.2 (2 marks)

(b) Work out: $\frac{5.4}{0.3^2}$

(3 marks)

23. Malindi bought the items shown in the table below. Study the table carefully and complete it.

Items	Cost	Total cost
A loaf of bread	Sh.4,400 each loaf	Sh.
$1\frac{1}{2}$ kg of sugar	Sh. Per kg	Sh.7,800
2 litres of milk	Sh.1,400 a litre	Sh.
..... lemons	Sh. 1,000 for 3 lemons	Sh.
		Sh. 18,000

24. (a) With the help of a ruler and a pair of compasses only, construct a triangle **ABC** in which angle **ABC** is **120°** line **AB** = line **BC** = **6 cm**. (4marks)

Measure: (i) line **AC** = _____

(1 mark)

(ii) angle **BAC** = _____

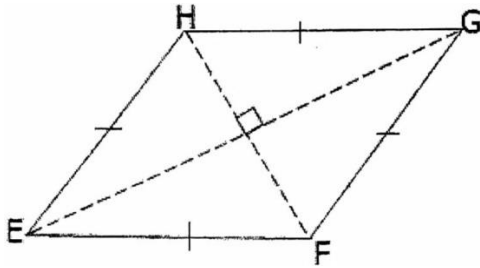
(1 mark)

25. In a box there are twice as many blue pens as the red pens and 13 more red pens than the green pens. Altogether there are 87 pens in the box. Find the

number of green pens in the box.
marks)

(4

26. The diagram below is a rhombus **EFGH**. Its area is 96cm^2 . The diagonal **EG=16** cm.



(a) Find the length of diagonal **HF**.

(2marks)

(b) Calculate the perimeter of the rhombus.

(3marks)

27. (a) Find the number that has been expanded below;

$$\{4 \times 100,000\} + \{8 \times 1,000\} + \{1 \times 100\} + \{9 \times 10\}$$

(2marks)

(b) Work out: $(19 \times 5) + (17 \times 5) - (16 \times 5)$

(3marks)

28. The interior angle of a regular polygon is 45° .

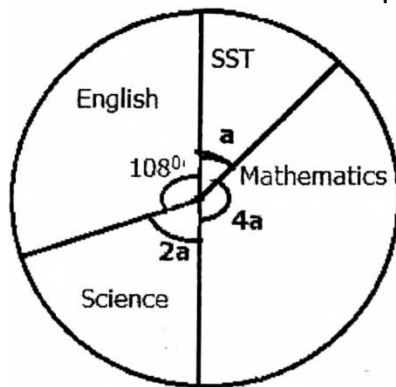
(a) Find the number of sides of the polygon

(2marks)

(b) Calculate the sum of the interior angles of the polygon

(2marks)

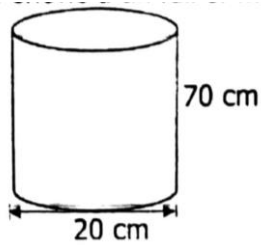
29. The pie chart below shows the distribution of text books in a school library. Use the information to answer the questions that follow.



(a) Find the value of a in degrees. (2mks)

(b) There are **320** mathematics books. Find the total number of text books in the library. (3marks)

30. The diagram below shows a tin full of milk. The cost per litre of milk is **Sh.1,400**.



- (a) Find the volume of the tin in cm^3 . (Use π as $\frac{22}{7}$)

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(2marks)

- (b) How much does it cost to buy a tin full of milk?

(3marks)

31. Atwine saves $\frac{3}{10}$ of her daily income and spends the rest of the money on food and transport. She spends **Sh.23,000** on food and **Sh.5,000** on transport.

- (a) Calculate the percentage of the money that Atwine saves.

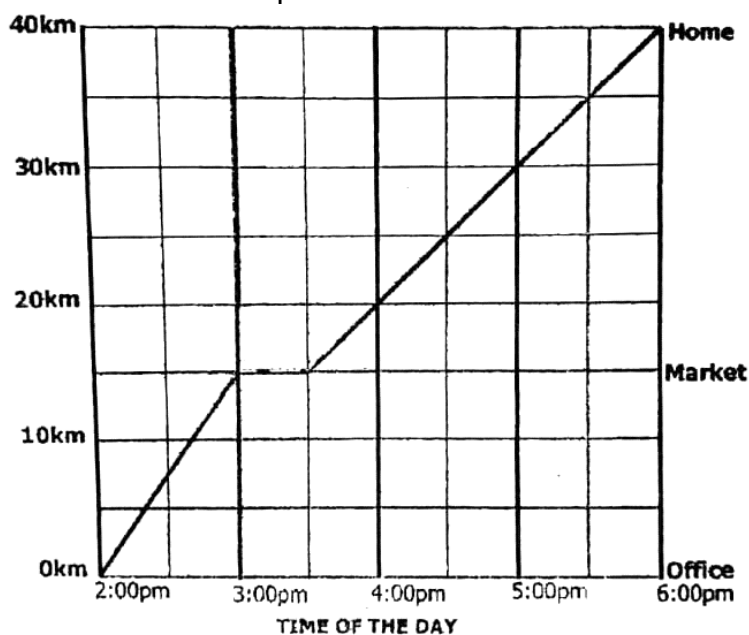
(2marks)

- (b) Calculate Atwine's daily income.

(3marks)

32. The travel graph below shows Bagambe's journey from his work place via the market to his home.

Use it to answer the questions that follow:



(a) At what time did Bagambe arrive at the market? (1 mark)

(b) For how long did Bagambe stop at the market? (1 mark)

(c) How far is the market from Bagambe's home? (2 marks)

(d) Calculate Bagambe's average speed of the whole journey. (2 marks)

END

