

MBARARA MUNICIPAL SCHOOL
PRE-MOCK EXAMINATIONS SET 2 TERM II, 2024.
MATHEMATICS

TIME: 2Hours 30:Min.

Index No.

EMIS NO.					PERSONAL NO.		

Candidate's Name: -----

Candidate's Signature:-----

Section:-----Stream-----Date-----

Archdeaconry-----

Read the following instructions carefully:

1. The paper has two Sections: A and B.
2. Section A has 20 questions (40 Marks).
3. Section B has 12 questions (60 Marks).
4. Answer All questions. All answers to both Sections A and B must be written in the spaces provided.
5. All answers must be written using a blue or black ball point pen or ink.
6. Diagrams should be drawn in pencil.
7. Unnecessary alteration of work may lead to loss of marks.
8. Any handwriting that cannot easily be read may lead to loss of marks.
9. Do not fill anything in the boxes indicated for Examiners' use only.

FOR EXAMINERS' USE ONLY		
	MARKS	T/L MARKS
Section A		
Section B		
Total		
Teachers' comments		

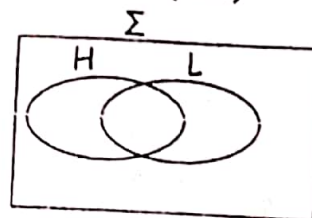
SECTION A (40 MARKS)

Answer all questions in this section (Questions 1 to 20 carry two marks each).

<p>1. Work out: $73 - 20$</p> <p>_____</p>	<p>2. Work out: $5432 + 3215$</p> <p>_____</p>
<p>3. Solve for d; $6 + d = 11$</p>	<p>4. Given the digits 4, 0, and 6, find the sum of the smallest and largest 3-digit number formed.</p>
<p>5. Using a ruler, a pencil and a pair of compasses only, construct a perpendicular bisector through the given line ZW</p> <div data-bbox="311 1153 790 1220" data-label="Image"> </div>	<p>6. During census 2024, the following homes were tallied to have been counted in the first day in a certain village. HHH HHH HHH HHH III How many homes were counted on the first day in that village?</p>
<p>7. Find the number whose scientific form is 3.76×10^{-1}</p>	<p>8. The base area of a cube below is 9cm^2. Work out its volume.</p> <div data-bbox="933 1456 1093 1590" data-label="Image"> </div>
<p>9. Simplify: $\frac{3}{4} (8e - 12n)$</p>	<p>10. Complete the sequence correctly 2, 3, 7, 16, 32, _____</p>

11. Work out; $1\frac{1}{4} - \frac{2}{3}$

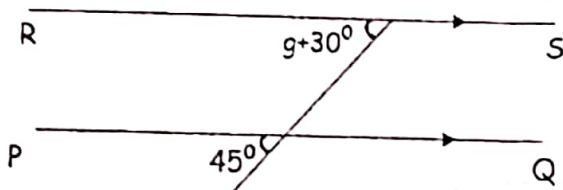
12. Shade set $(H \cap L)'$



13. Shifah bought 5 watermelons at Sh.20,000. How much would she pay for 3 similar watermelons at the same rate?

14. Work out; $34.26 - 15.4 + 2.07$

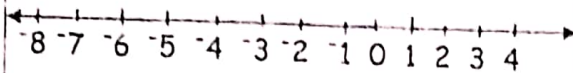
15. Line PQ is parallel to line RS, find the value of g .



16. Without dividing, show that 468 is divisible by 9.

17. Given that set H has 3 elements. How many proper subsets are in set H?

18. Add $-3 + -4$ using the number line below.



19. A cyclist travelled 150Km in 90 minutes. Calculate the speed of the cyclist.

20. Expand 7356 using exponents.

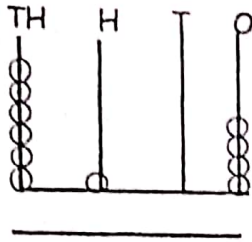
SECTION B

21.a) Using a ruler, a pencil and a pair of compasses only, construct an equilateral triangle in a circle of radius of 4cm. (3mks)

b) Find the perimeter of the equilateral triangle. (2mks)

23. a) Work out: $\frac{1}{3} - \frac{1}{2} + \frac{3}{4}$ (3mks)

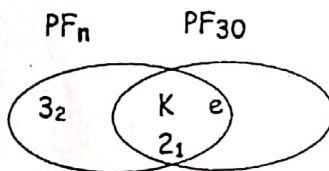
22.a) Express the number on the abacus in standard form. (3marks)



b) Samuel can only carry a $2\frac{1}{3}$ litre tin of water from the well. How many rounds will he make to fill a container of $16\frac{1}{3}$ litres? (2mks)

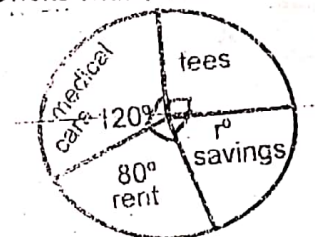
b) Change 497 to Roman Numerals. (2mks)

24. The Venn diagram below shows the prime factors of n and 30. Study and use it to answer the questions that follow.



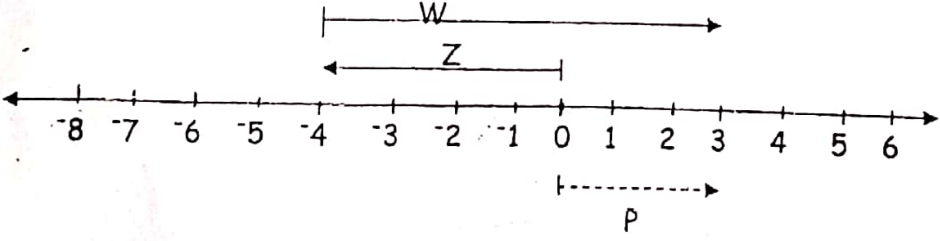
a) If the H.C.F of the prime factors of n and 30 is 6. Find the value of K . (2mks)

25. The pie chart below shows how a cleaner spends his monthly salary. Study it carefully and answer the questions that follow.



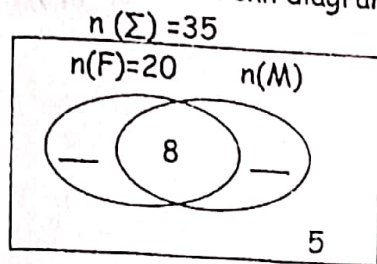
a) Find the value of r . (2mks)

<p>b) Work out the Lowest Common Multiple (LCM) of n and 30. (3mks)</p>	<p>b) If the cleaner spends Sh.72,000 on medical care, how much is his salary? (3mks)</p>
<p>26.a) Solve for n: $\frac{1}{2} = 6$ (2mks)</p>	<p>26.b) Onyango bought 2kg of rice at Sh.3K per Kg and 1Kg of sugar at Sh.(K+2,000). If he paid altogether Sh.37,000; How much did he pay for 1Kg of sugar? (3mks)</p>

<p>27.a) Use the inequality either < or > to complete correctly.</p> <p>$-3 \square -10$ (1mk)</p>	<p>b) $+9 \square -9$ (1mk)</p>
<p>c) Use the number line below to form a Mathematical statement. (4mks)</p> 	

28. In class of 35 pupils, 20 pupils eat fish (F), k pupils eat meat (M) only and 8 pupils eat both fish and meat while 5 eat none of the two food stuffs.

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



b) Find the value of K. (2mks)

c) If a pupil is picked at a random, what is the probability of choosing one who eats only one type of foodstuff? (1mk)

29.a) Express 0.25Kg to g. (2mks)

b) How many 400ml of water can one get from a 20 litre jerry can? (2mks)

30. A motorist travelled from 8:00am to 10:30am covering a distance of 180Km.
a) Find the average speed for the whole journey. (2mks)

b) Express 18Km/h to metres per second.

(3mks)

31.a) Work out; 4 2 3

X 1 5 (2mks)

b) The prime minister donated 62,500 textbooks to 25 schools in Wakiso district. How many textbooks did each school get? (2mks)

32. Hadijah bought the items in the table below from a shop.

a) Complete the table.

(4mks)

Quantity of item	Unity price	Amount
3 bars of soap	Sh.6000 per bar	Sh. _____
_____ cake	Sh.1,200 per cake	Sh.4,800
1 $\frac{1}{2}$ kg of sugar	Sh. _____ per Kg.	Sh.9,000
Total expenditure		Sh. _____

b) If Hadijah was given a discount Sh.800, how much did she pay?

(2mks)