



THE REPUBLIC OF UGANDA

MUBENDE MUNICIPAL EXAMINATIONS BOARD

PRIMARY LEAVING EXAMINATION MOCK, 2022

PRIMARY SEVEN MATHEMATICS

Time Allowed: 2 hours 30 minutes

Random Number						Personal Number		

Candidate's Name:

Candidate's Signature.....

School's Name

District:

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

Read the following instructions carefully:

1. This paper has two Sections: A and B.
2. Section A, has 20 short-answer questions (40 marks) and Section B has 12 questions (60 marks)
3. All the working for both sections A and B must be shown in the spaces provided.
4. All working must be done using a blue or black ball - point pen or fountain pen. Diagrams should be drawn in pencil.
5. No calculators are allowed in the examination room.
6. Unnecessary changes of work may lead to loss of marks.
7. Any handwriting that cannot easily be read may lead to loss of marks.
8. Do not fill anything in the boxes indicated: "For Examiners' Use Only" and those inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	Marks	Exrs' No.
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

SECTION A: (40 Marks)

Answer all questions in section A. Each question carries 2 marks.

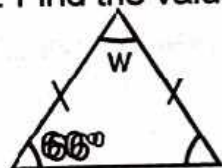
- | | |
|---|---|
| 1. Workout: $108 - 74$ | 7. Find the next number in the sequence below?
11, 12, 14, 17, 21, _____. |
| 2. Write in figures: Ten thousand, five. | |
| 3. Given that set $M = \{a, b, c, d\}$.
How many proper subsets are in set M? | 8. Round off 4.413 to the nearest whole number. |
| 4. Workout: $\frac{2}{5} + \frac{3}{10}$ | 9. In a bag, there are 6 red and 9 black pens. Find the probability of picking at random a black pen. |
| 5. Find the Greatest Common Factor (G.C.F) of 18 and 24. | 10. Express 8000 grammes to kg. |
| <div style="text-align: right;"><input type="text"/></div> | <div style="text-align: right;"><input type="text"/></div> |
| 6. Solve for p: $2p + 7 = 13$. | 11. Change 1011_{two} to decimal base. |

12. Simplify $+4 - +9$

13. Using a sharp pencil, a ruler and a pair of compasses only, Construct an angle of 120° in the space provided below.

14. A mathematics lesson began at 11:55am and ended at 1:30pm. How long did the lesson take?

15. Find the value of w in the figure below.



16. Workout the square root of 0.16.

17. Find the reciprocal of $2\frac{1}{4}$

18. Given the tallies $\text{||||} \text{||||} \text{||||}$. Write the number shown in Roman numerals.

19. The circle has a diameter of 21cm. Find its circumference. (Take $\pi = \frac{22}{7}$)

20. Tom had moved $\frac{3}{5}$ of the journey and his tire got a puncture. If he had remained with 10km to complete the journey, how long was the journey?

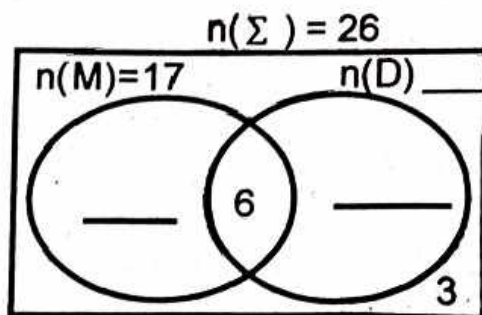
SECTION B: (60 Marks)

Answer ALL questions in this Section.

Marks for each question are indicated in the brackets.

21. In a class of 26 pupils, 17 like music (M), y like Debate (D) only and 6 pupils like both music and debate while 3 pupils do not like either of the two activities.

(a) Use the information above to complete the venn diagram below. (3marks)



(b) Find the value of y .

(2marks)

(c) How many pupils like debate altogether?

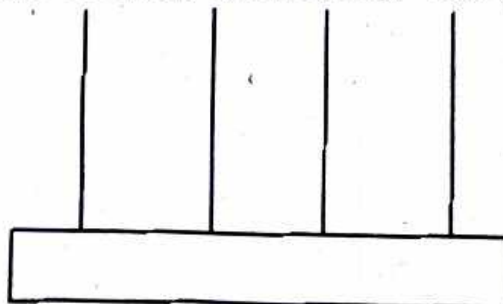
(1mark)



22. Given the number 95,748; workout; the difference of the values of 5 and 4.

(4marks)

23. (a) Draw the beads to show the number 4032_{five} on the abacus below. (2marks)



(b) Convert 1101_{two} to base five.

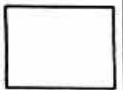
(3marks)

24. (a) Simplify: $\frac{0.24 \times 0.3}{0.06 \times 0.03}$

(3marks)

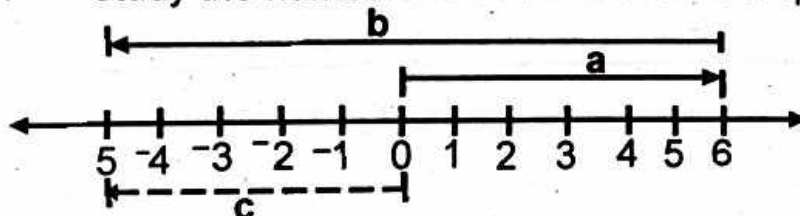
(b) Change $0.7272\dots$ to a common fraction.

(2marks)



25. Study the numberline below and answer questions.

(1mark each)



(a) Name the integers:

(i) a _____

(ii) b _____

(iii) c _____

(b) Write the mathematical statement of the numberline.

(2marks)

26. Peter, John and Daniel shared 84 books in the ratio of 3:5:4 respectively.

(a) How many more books did John get than Peter?

(3marks)

(b) Express the number of books Peter got as a percentage.

(2marks)

27. Complete the table below correctly.

(5marks)

Notes	Denominations	Value
4	sh.5000	sh. _____
_____	sh.2000	sh.20,000
6	sh. _____	sh.60,000
3	sh. _____	sh.150,000
TOTAL AMOUNT		sh. _____

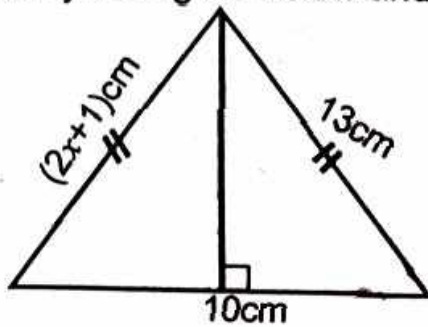
28. (a) Express 2 hours to seconds.

(2marks)

(b) Samuel drove from Ochero to Kalaki at a speed of 60km/hr for $2\frac{1}{2}$ hours. What distance did he cover from Ochero to Kalaki?

(3marks)

29. Study the figure below and answer the questions that follow.



(a) Find the value of x .

(2marks)

(b) If the red ant moved around the figure above twice, what distance did it move in cm?

(3marks)

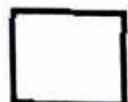
30. Given that $m = 4$, $p = -2$ and $n = +3$.

(a) Find: (i) mnp

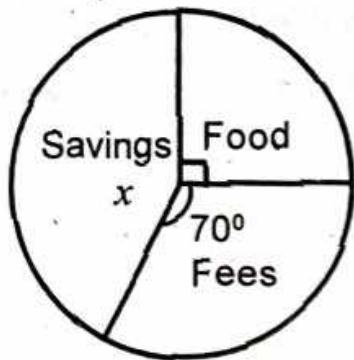
(2marks)

(ii) $\frac{mp}{p}$

(3marks)



31. The pie chart below shows how a worker spent his salary.



(a) Find the value of x .

(2marks)

(b) If his monthly salary is sh.216,000, how much did he spend on food?

(2marks)

(c) Express the sector of fees as a fraction of the whole sectors. (1mark)

32. (a) Using a pencil, a ruler and a pair of compasses only, construct a triangle ABC where $\overline{AB} = 6\text{cm}$, $\overline{BC} = 5\text{cm}$ and angle $ABC = 60^\circ$.

(4marks)

(b) Measure $\overline{AC} =$ _____

(1mark)