BROAD EXAMINATIONS®

P.6 MATHEMATICS EXAMINATION

TRIAL SET I TERM III - 2023

Time allowed: 2 hours 30 minutes.

Pupil's Name: .....

School Name: .....

District Name: .....

Read the following instructions carefully:

1. This paper is made up of 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 in both sections **A** and **B**.
5. All answers must be written in the space provided in blue or black ball point pens and ink. **Only diagrams should be done in pencil.**
6. Unnecessary crossing of answers will lead to loss of marks.
7. Any handwriting, which cannot be easily read, may lead to loss of marks.
8. Do **not** fill anything in the boxes indicated for Examiners' use only.

FOR EXAMINER'S USE ONLY		
PAGES	**MARKS**	**SIGN**
Page 2		
Page 3		
Page 4		
Page 5		
Page 6		
Page 7		
Page 8		
TOTAL		

Teacher's comment to the learner

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Approved by:

Team Head Mathematics Dept.

SECTION .A. (40 Marks)

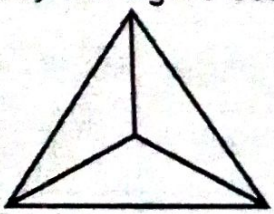
1. Multiply: 3
x 2

2. Write "four thousand forty nine" in figures.

3. Given that set A = {1, 2, 3, 4, 5, 6}
B = {1, 3, 5, 7, 9}
Find B - A

4. Convert 0.6 to a common fraction in its simplest form.

5. Study the figure below.



Find the number of edges of the above figure.

6. Find the next two numbers in the sequence.

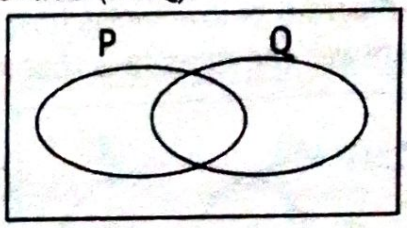
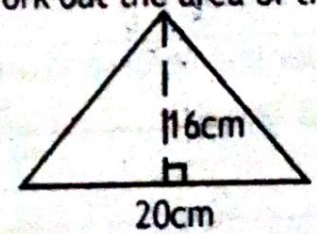
64, 49, 36, 25, _____, _____

7. Write any one month of the year with 30 days.

8. Find the median of 2, 6, 4, 9 and 1

9. Given that US $ 1 = Ugsh.3700. If a tourist comes to Uganda with 30 Us dollars, how much money can get in Uganda shillings?

10. Jane and Tom shared 36 oranges in the ratio of 4:5 respectively. How many oranges did Tom get?

11.	Arrange $^{-}5$, 0, $^{+}1$, $^{-}3$, $^{-}2$ and -1 in descending order.	12.	During school elections, Juma got 127 votes more than Antony. If Antony got 288 votes, how many votes did both candidates get altogether?
13.	Convert 259cm to metres.	14.	Shade $(P \cap Q)'$ 
15.	Simplify: y + 3k - 5y + k	16.	A boy was facing in the East and turned through an angle of 135^0 in an anticlockwise direction. Find his new direction.
17.	Round off 48639 to the nearest thousands.	18.	Work out the area of the triangle below. 
19.	Find the Lowest Common Factor of 8 and 12.	20.	A bus moved for $1\frac{1}{2}$ hours at a speed of 50km/h. What distance did it cover?

SECTION B. (60 Marks)

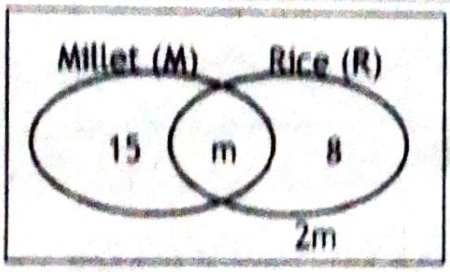
21. Given the digits 7, 2, 0

(a) Form all possible three-digit numerals using the above digits.

(b) Expand the biggest 3 digit numeral formed using values.

(04marks)

22. The venn-diagram below shows how different people enjoyed different types of food. Use it to answer the questions that follow.



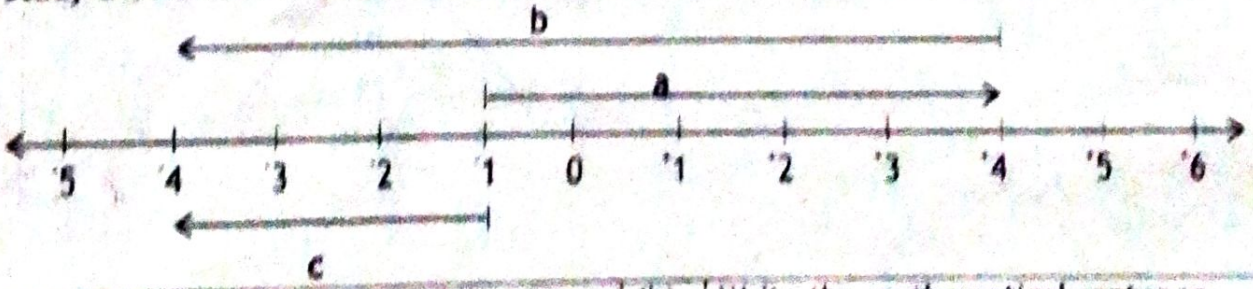
(a) If 14 people did not eat Millet, find the value of m.

(b) How many people attended the party?

(c) How many people ate only one type of food?

(06marks)

23. Study the number line below and use it to answer the questions that follow.



(a) Write the integer represented by arrow;

(i) a =

(ii) b =

(iii) c =

(b) Write the mathematical sentence represented on the number line.

(04marks)

24. (a) Express 72 as a product of its prime factors.

(b) Work out the Lowest Common Multiple (LCM) of 36 and 45.

(c) Find the greatest number that divides 12 and 20 without leaving a remainder.

(06 marks)

25. In a school, there are 30% more female cooks than male cooks. If there are 70 male cooks;

(a) Find the percentage of male cooks.

(b) How many cooks are in the school altogether?

(c) How many female cooks are in the school?

((06marks)

26. Study and complete the table bill below.

Items	Quantity	Unit cost	Amount
Nails	2kg	Sh.6000 per kg	Sh._____
Paint	1½ litres	Sh._____ per litre	Sh.12000
Brushes	_____ brushes	Sh.3500 @ brush	Sh.7000
Iron sheet	1 iron sheet	Sh.30000 @ iron sheet	Sh._____
		Total expenditure	Sh._____

(05marks)

27. (a) Using a ruler, a pencil and a protractor only, construct rectangle WXYZ where line WX=5.5cm and XY=3.5cm.

(b) Measure line XZ.

(04marks)

28. A taxi started moving at 3:00pm and reached the destination at 5:15pm.

(a) How long did the taxi take to reach the destination?

(b) If the taxi moved at a speed of 64km/h, how far did the taxi move?

(04marks)

29. A school director banked sh.600,000 in a SACCO that offers an interest rate of 6% per year.

(a) How much interest did the director get if he withdrew the money after 8 months?

(b) How much money did he get altogether after 8 months?

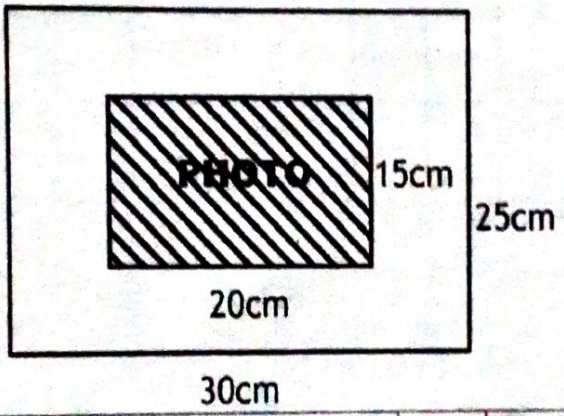
(04marks)

30. (a) Solve for P in 4p - 9 = 19

(b) Ali had 5 more mangoes than Annet. If both had 29 mangoes altogether. How many mangoes did Ali have?

(05marks)

31. The figure below shows a photo placed on a frame. Use it to answer the questions that follow.



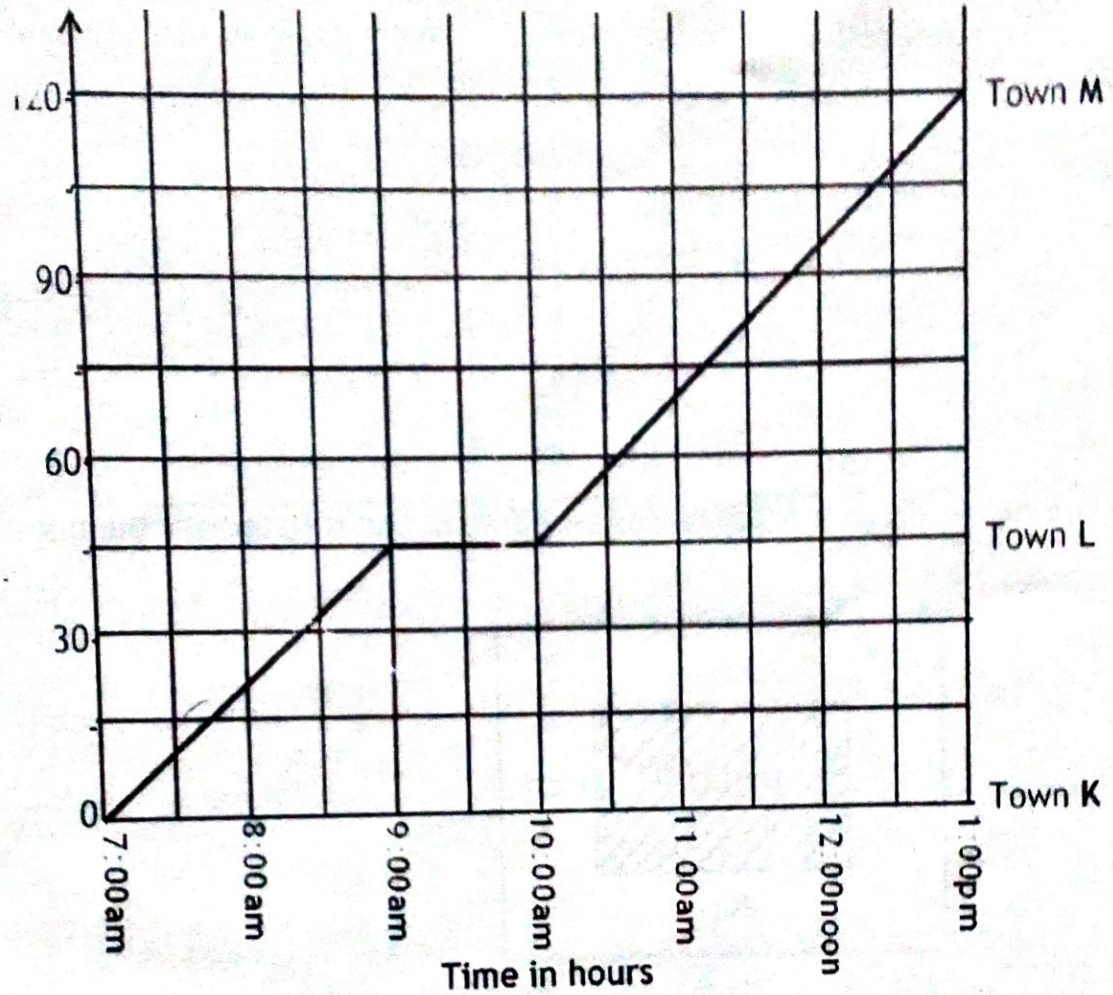
(a) Find the area of the photo.

(b) Find the area of the frame.

(c) Find the area of the frame that is not covered by the photo.

(05marks)

32 Graph below shows a motorist's journey from Town K through Town L to Town M. Use it to answer the questions that follow.



(a) what time did he start the journey?

(b) For how long did the motorist rest at town L?

(c) How far is town M from town L?

(d) Find the motorist's average speed for the whole journey.

(05marks)

END