

**IBANDA DISTRICT EXAMINATION BOARD**  
**PRE- PRIMARY LEAVING EXAMINATION 2023**  
**MATHEMATICS**

TIME ALLOWED: 2 Hours 30 Minutes

Random No.	Personal No.

Candidate's Name:.....

Candidate's signature:.....

School Random No:.....

District Id NO:.....

**READ THE FOLLOWING INSTRUCTIONS CAREFULLY**

1. This paper has two sections: A and B
2. Section A has 20 questions (40 marks)
3. Section B has 12 questions (60 marks)
4. Attempt all questions in both sections.  
All answers to both section A and B must be written in the space provided.
5. All answers must be written in *blue or black* ballpoint pens or *ink*. Only diagrams and graph work must be done in pencil
6. Unnecessary *alteration* of work will lead to loss of marks.
7. Any *handwriting* that cannot be easily read may lead to loss of marks
8. Do not fill anything in the boxes indicated "FOR EXAMINER'S USE ONLY"

**FOR EXAMINER'S  
USE ONLY**

QN NO.	MARKS	INITIALS
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		

**SECTION A**

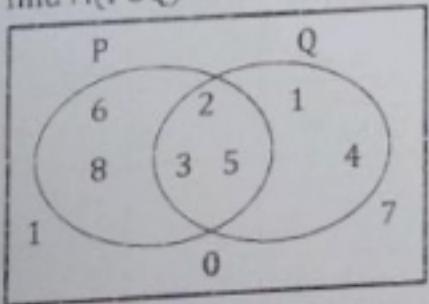
1. Work out:

$$\begin{array}{r} 1 \quad 3 \\ \times \quad 3 \\ \hline \end{array}$$

$$\hline$$

2. Express XLVIII in Hindu Arabic numerals.

3. Write 4,096 in words.

4. In the Venn diagram below, find  $\cap(P \cup Q)$ 

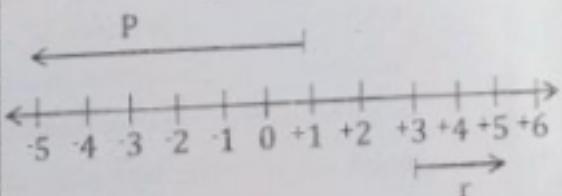
5. Find the sum of the next two numbers.

7, 9, 12, 17, \_\_\_\_\_, \_\_\_\_\_

6. Without using a protractor, construct an angle of  $45^\circ$ .

7. Express 4900 in standard form.

8. Use the number line below to answer the questions.

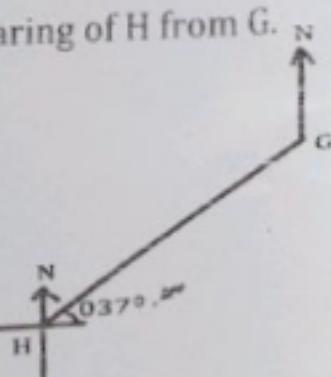


Name the integers represented by arrows.

i) r \_\_\_\_\_

ii) p \_\_\_\_\_

9. Solve the equation.  $4g - 3 = 17$

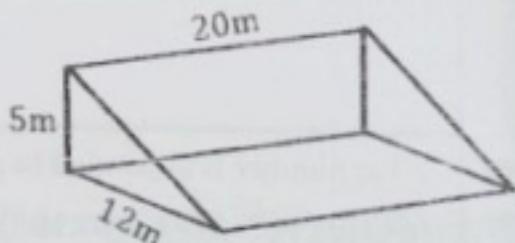
10.	<p>How many 250 gramme packets of sugar can be obtained from a 20 Kilogramme bag of sugar.</p>	14.	<p>There are 8 blue pens and 4 red pens in a bag. Find the probability of picking a red pen at random.</p>
11.	<p>The mean of 10, 7, 2P, 9 and 6 is 8.</p>	15.	<p>Yesterday was Tuesday. What day of the week will it be 149 days from now.</p>
12.	<p>What number is expanded to get.  <math>(6 \times 10^2) + (7 \times 10^1) + (8 \times 10^{-2})</math>  <math>+(4 \times 10^0)</math></p>	16.	<p>In the figure below, find the bearing of H from G.</p>
13.	<p>A trader bought 30 exercise books at sh. 36,000. How much did he pay for four similar books?</p>		

17. Okello borrowed sh. 420,000 from a SACCO at the simple interest rate of  $16\frac{7}{3}\%$  per month. How much interest did he pay back after 5 months?

18. Peter walked a distance of 6 kilometers in 40 minutes. Find his speed in kilometers per hour.

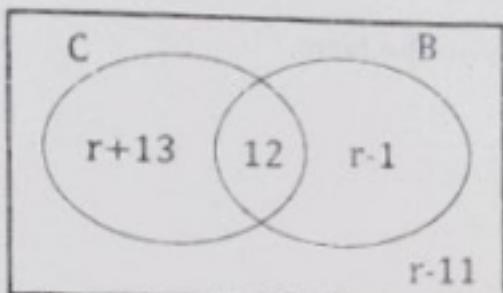
19. Given that  $p=5$ ,  $n=3$  and  $r=2$   
Evaluate:  $\frac{3p}{n-r}$

20. Find the volume of the figure below.



**SECTION B (60 MARKS)**

21. The Venn diagram shows the number of guests who were served with chicken (C) and beef (B)



- (a) If 40 guests like only one type of dish, find the value of r. (3 marks)

- (b) How many guests were served with chicken altogether? (2 marks)

22. (a) Workout: 
$$\begin{array}{r} 1 & 2 & 3_{\text{five}} \\ + 3 & 3 & 3_{\text{five}} \\ \hline \end{array}$$
 (2 marks)

- (b) Given that  $34_m = 112_{\text{four}}$ , Find the value of m. (3 marks)

23. The number of cows, sheep and goats on a farm is in the ratio of 5:3:7 respectively.  
There are 40 more goats than sheep.
- (a) Find the total number of animals on the farm. (3 marks)

- (b) How many cows are there? (2 marks)

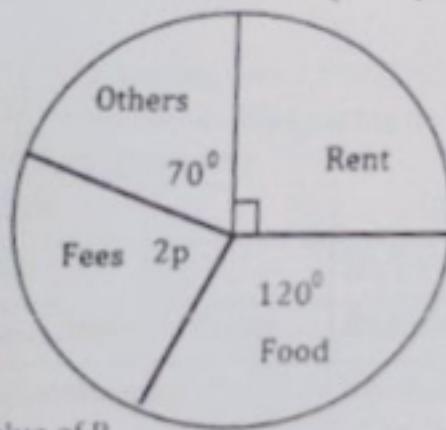
- 24(a) Solve the inequality. (2 marks)  
$$6 - 2y \leq 2$$

- (b) Solve the equation. (3 marks)

$$2 + k = \frac{3k}{5} + 6.$$

25. The sum of three consecutive even numbers is 60. If the smallest number is  $y-1$ , find the largest number. (4 marks)

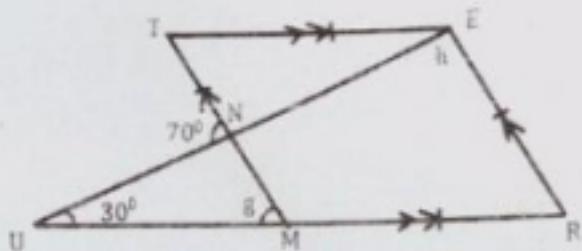
26. The pie chart below shows how a man spends his monthly salary.



- (a) Find the value of P. (2 marks)

- (b) If he spends shs 900,000 on the fees and others, how much money does he earn monthly? (3 marks)

27. In the figure, TERM is a parallelogram angle  $MUN = 30^\circ$  and angle  $UNT = 70^\circ$



(a) Find the value of  $g$ .

(2 marks)

(b) Find the size of angle UER

(3 marks)

28. A geometry set costs sh 1500 more than a counter book and counter book costs twice as much as a ruler. If a geometrical set costs as much as a counter book and a ruler, find the cost of a counter book. (4 marks)
29. Fatuma went to a market with a fifty thousand shillings note. She bought the items shown in the table below. After paying for all the items, she remained with Sh 3100. Complete the table correctly. (6 marks)

ITEM	UNIT COST	AMOUNT
2kg of meat	Sh. 14,000@ kg	Sh. _____
_____ loaves of bread	Sh. 5,000@ loaf	Sh. 15,000
$1\frac{1}{2}$ litres of cooking oil.	Sh. _____ a litre	Sh. _____
250g of salt	Sh. 1,200 a kg	Sh. _____
<b>TOTAL EXPENDITURE</b>		Sh. _____

30.(a)

Using a ruler, pencil and a pair of compasses , construct triangle ABC, where  
 $AB = 8 \text{ cm}$ ,  $\angle ABC = 30^\circ$  and  $\angle BAC = 60^\circ$ . (4 marks)

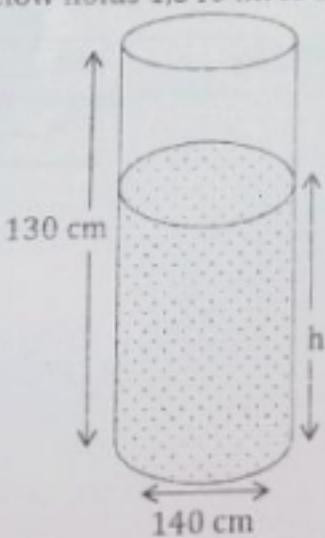
(b)

Name the type of triangle constructed above.

(1 mark)

31.

The tank below holds 1,540 litres of water now.



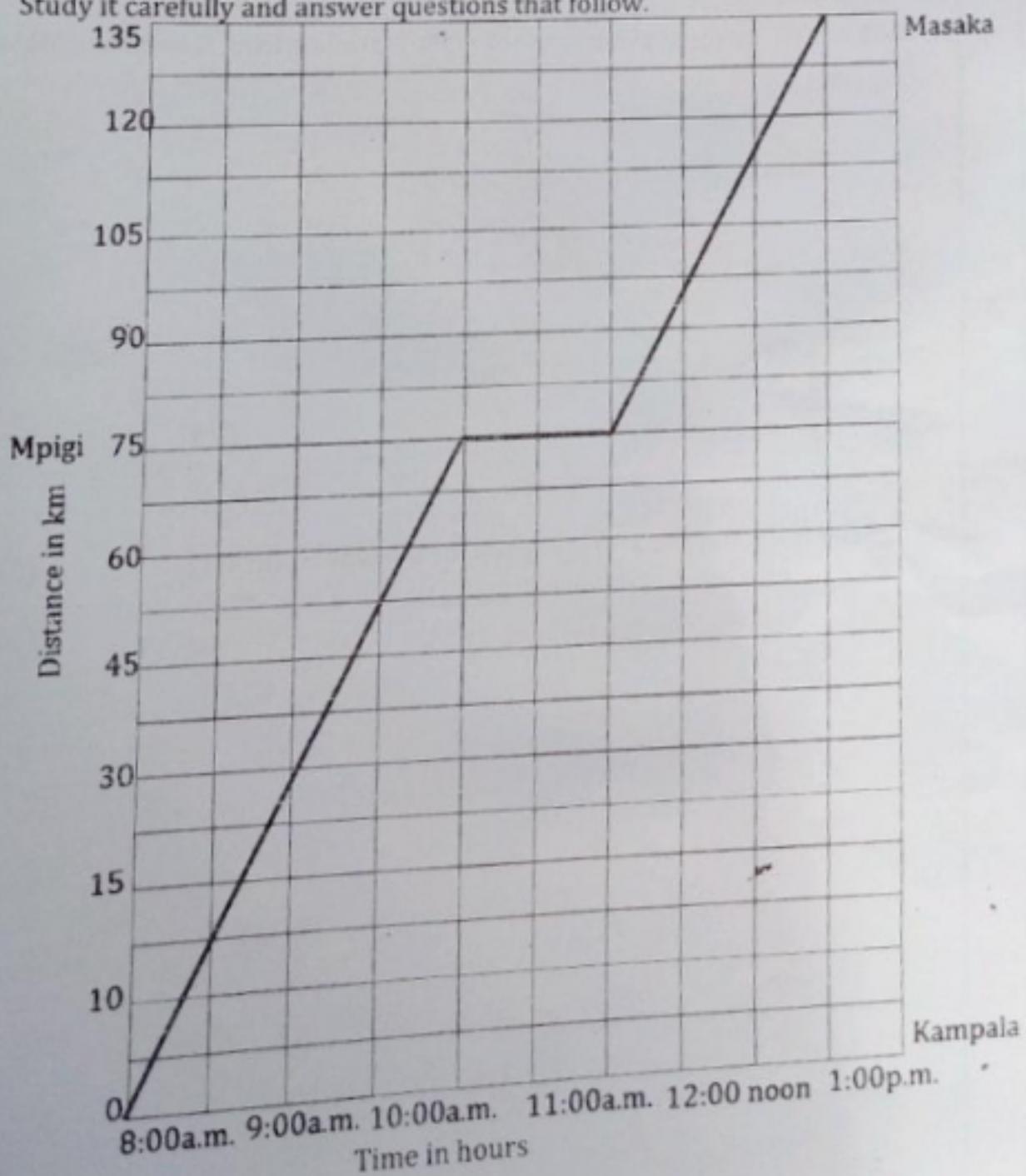
(a)

Find the value of  $h$ .

(3 marks)

- (b) If the tank is  $\frac{2}{3}$  full, find the capacity of the tank when completely full. (2 marks)

32. The graph below shows how a motorist drove from Kampala to Masaka via Mpigi. Study it carefully and answer questions that follow.



- a) How long did the motorist rest at Mpigi? (1 mark)
- b) Work out the motorists average speed while travelling from Kampala to Masaka. (2 marks)
- c) Calculate the motorists average speed for the whole journey. (3 marks)