

# THE SIPRO BEGINNING OF TERM II EXAMINATIONS-2023

SUBJECT : MATHEMATICS

CLASS : PRIMARY SIX

DURATION : 2 hours 30 minutes

Name : \_\_\_\_\_  
School : \_\_\_\_\_  
District : \_\_\_\_\_

## 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 sections A and B. must be written in the spaces provided.
5. All answers must be written in blue or black ball point 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;

PAGES	MARKS	INITIALS
Page 1		
Page 2		
Page 3		
Page 4		
Page 5		
Page 6		
Page 7		
Page 8		
Page 9		
Total		

Please turn over



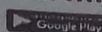
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# SECTION: 40 MARKS

Attempt **all** questions in this section  
Questions 1 to 20 carry **two** marks each

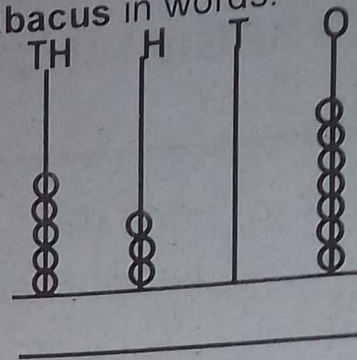
1.

Work out: 
$$\begin{array}{r} 349 \\ + 620 \\ \hline \end{array}$$

\_\_\_\_\_

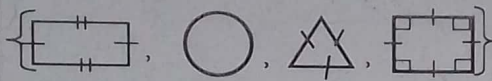
2.

Write the number on the abacus in words.



3.

Given that set  $P =$



Find the number of **subsets** in set  $P$ .

4.

Multiply:  $\frac{3}{5} \times \frac{2}{7}$

5.

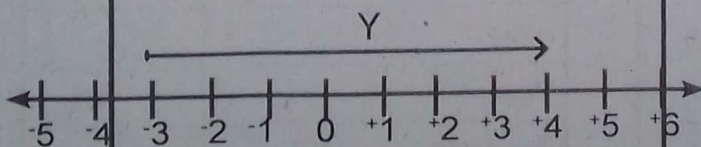
Solve for  $X$ :  $2x + 6 = 26$ .

6.

Work out the **mean** of 12, 16 and 8.

7.

Which **integer** is represented by the arrow  $Y$ ?



$Y =$  \_\_\_\_\_

8.

Using a ruler, a pencil and a pair of compasses only to construct an angle of  $60^\circ$ .

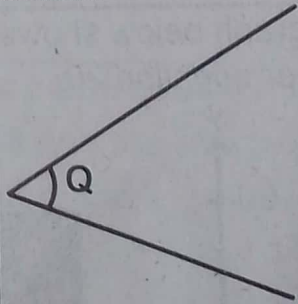


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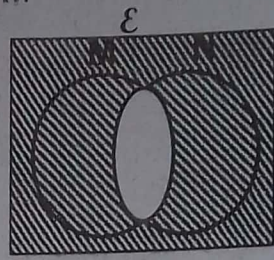
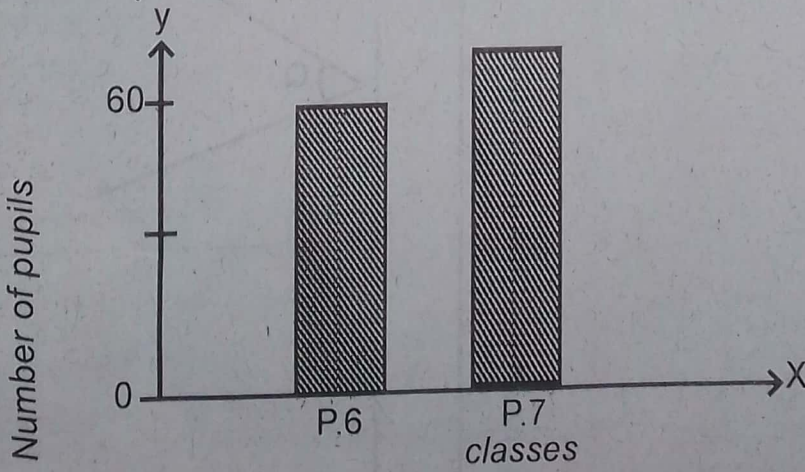
**P.6 MATHEMATICS BEGINNING OF TERM II EXAMINATIONS - 2023**

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TR'S GUIDES AND PUPIL'S COMPANIONS.



9.	Which <b>digit</b> is in the place value of ten thousands in 493,562?	10.	Find the <b>next</b> number in the sequence below. 1, 4, 9, 16, 25, 36, ____.
11.	Kato loaded a lorry with <b>23,000</b> grams of maize. How many <b>kilograms</b> did he load?	12.	Without dividing, show that <b>327</b> is divisible by 3.
13.	Convert <b>8 minutes</b> into seconds.	14.	Using a protractor only, measure the angle <b>Q</b> drawn below.  Q = _____



15.	Oryenu bought seven cups at sh. 35,000. Find the cost of each cup.	16.	Describe the <b>shaded</b> regions below. 
17.	Work out: $\frac{2}{3} + \frac{1}{4}$	18.	Peter moved ten steps to the right and six steps on the left. Find Peter's <b>new position</b> .
19.	Amule did the test from 9:30am to 11:00a.m; how <b>long</b> did the test last?		
20.	<p>The graph below shows the number of pupils in P.6 and P.7. Use it to answer question 20.</p> 		





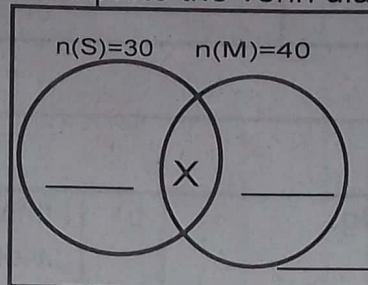
## SECTION B: 60 MARKS

*Attempt all questions in this section.*

*Marks for each part of the question are indicated in the brackets*

21. In a primary six class of 70 pupils, 40 pupils like mathematics (**M**), 30 pupils like science (**S**), **X** pupils like both subjects while 5 pupils do not like any of the two subjects.

a) Use the data above to complete the venn diagram below.



b) Find the value of **X**.

(03Marks)

c) How many pupils like **only** mathematics?

(02Marks)

(01Mark)

22 a) Given that 9  342. If the value of the missing **digit** is eight thousands. Find the **digit**.

(02Marks)

b) Work out the **product** of the value of **3** and the place value of **4** in the numeral above.

(03Marks)



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4

23.

Complete the shopping bill below.

Quantity	Unit cost	Total amount
$1\frac{1}{2}$ kg of meat	sh.16,000@kg	sh. _____
4 Litres of cooking oil	sh. _____	sh.32,000
_____ kg of sugar	sh. 4200per kg	sh.8,400
Total expenditure		sh. _____

(04Marks)

24.a) Simplify:  $6g - 8g + 9g$ .b) I think of a number, double it and divide the result by **three**, the answer is **8**. Find the number.

(02Marks)

(03Marks)

25 a) What is the value of **3** in **0.36**?b) Add:  $42.36 + 4.7$ 

(02Marks)

(02Marks)



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5

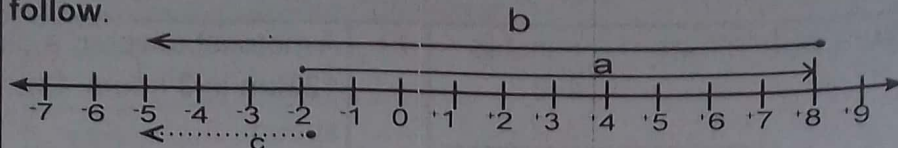


26 a)	<div>Work out:</div> <table><tr><td>Hours</td><td>minutes</td></tr><tr><td>2</td><td>48</td></tr><tr><td>+ 3</td><td>32</td></tr></table> <hr/> <hr/>	Hours	minutes	2	48	+ 3	32	b)	A motorist covered a distance of 123km in 3 hours. Calculate his speed.
Hours	minutes								
2	48								
+ 3	32								
	(02Marks)		(02Marks)						
27.a)	Using a ruler, a pencil and a pair of compasses only, construct a rectangle ABCD where AB = 5cm and BC =AD = 4cm.								



28.

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



a)

Write down the **integers** represented by the arrows:

a = \_\_\_\_\_

b = \_\_\_\_\_

c = \_\_\_\_\_

(03Marks)

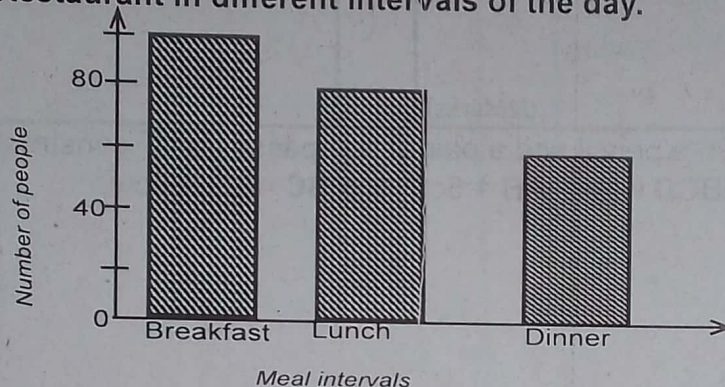
b)

Write the mathematical **sentence** of the above number line.

(02Marks)

29.

The bar graph below shows the number of people served at Tsavo Restaurant in different intervals of the day.



a) How many people had lunch at Tsavo Restaurant?

(01Mark)

b) What was the **difference** between people served at breakfast and lunch?

(02Marks)

c) Find the **total** number of people served at Tsavo Restaurant for all the intervals.

(02Marks)



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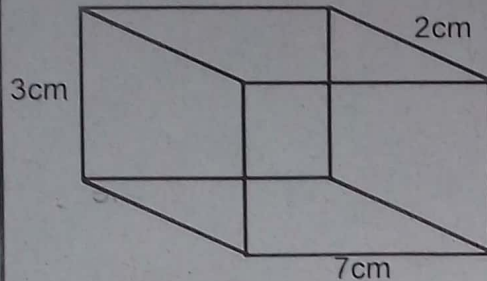
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30. a) How many **millilitres** are in 32 litres of a tank?

(02marks)

b) Calculate the **volume** of the cuboid below.



(02marks)

31.a) Work out the (**GCF**) Greatest Common Factor of 27 and 36.

(02marks)

b) Two **bells** at Maggwa Primary School ring in intervals of 30 minutes and 40 minutes respectively.

i) For how many hours will they ring **together**?

(02marks)

ii) If they ring together at **8:30am** for the first time, when will they ring together for the **second** time?

(02marks)



32. a) **Work out:**  $3467 + 78675 - 9442$ .

(02marks)

b) **Divide:**  $9 \overline{) 3636}$

(02marks)

c) **Subtract** 8,345 from 9,000.

(02marks)

