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"**

Please turn over

SECTION: 40 MARKS

Attempt all questions in this section

Questions **1** to **20** carry **two** marks each

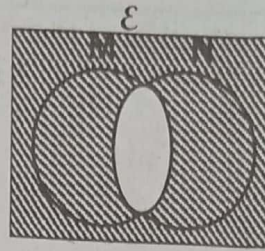|			
1.	**Work out:** 3 4 9 + 6 2 0	**2.**	Write the number on the **abacus** in words. TH H T O _____
3.	Given that set **P** = { ▭, ◯, △, ▭ } Find the number of **subsets** in set **P**.	**4.**	**Multiply:** $\dfrac{3}{5} \times \dfrac{2}{7}$
5.	Solve for **X**: $2x + 6 = 26$.	**6.**	Work out the **mean** of 12, 16 and 8.
7.	Which **integer** is represented by the arrow **Y**? Y ‑5 ‑4 ‑3 ‑2 ‑1 0 +1 +2 +3 +4 +5 +6 Y = _____	**8.**	Using a ruler, a pencil and a pair of compasses only to construct an angle of **60°**.
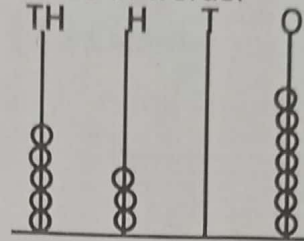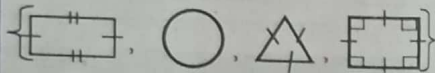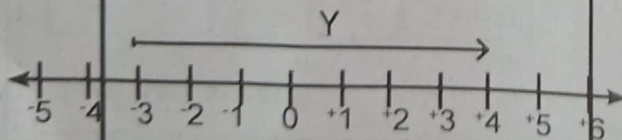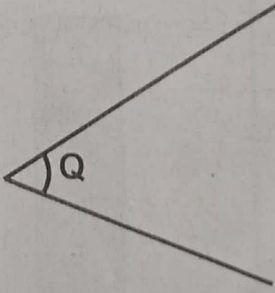
9.	Which **digit** is in the place value of ten thousands in 493,562?	10.	Find the **next** number in the sequence below. 1, 4, 9, 16, 25, 36, _____.
11.	Kato loaded a lorry with **23,000** grams of maize. How many **kilograms** did he load?	12.	Without dividing, show that **327** is divisible by 3.
13.	Convert **8 minutes** into seconds.	14.	Using a protractor only, measure the angle **Q** drawn below. Q =_____

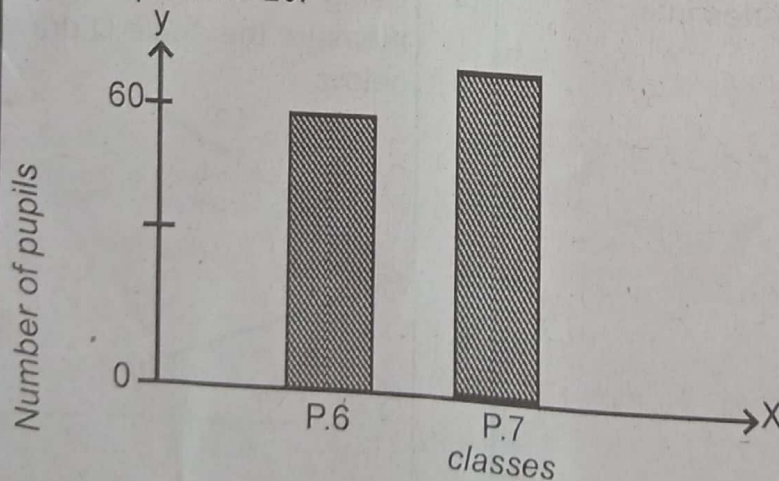|			
15.	Oryenu bought seven cups at sh. 35,000. Find the cost of each cup.	16.	Describe the shaded regions below.
17.	Work out: $\dfrac{2}{3}$ + $\dfrac{1}{4}$	18.	Peter moved ten steps to the right and six steps on the left. Find Peter's new position.

19. Amule did the test from **9:30**am to **11:00**a.m; how **long** did the test last?

The graph below shows the number of pupils in **P.6** and **P.7**.Use it to answer question 20.

20. What is the **scale** on the vertical axis?

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.

n(S)=30   n(M)=40

X
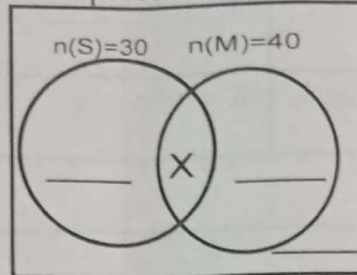
(03Marks)

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

(02Marks)

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

(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.
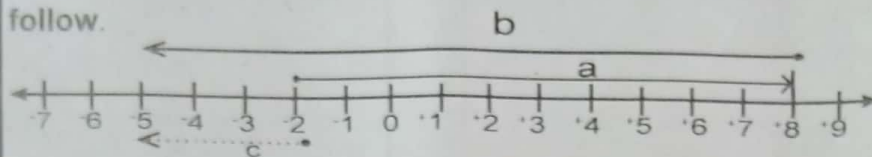
(03Marks)

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)

26 a)	Work out: Hours minutes
	
	        2 4 8
	    + 3 3 2
	_____
	
	_____
	
	(02Marks)
		b)	A motorist covered a distance of **123km** in **3** hours. Calculate his speed.
			
			(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.

(04Marks)

b) Show the lines of **folding symmetry** on the accurate diagram above.

(02Marks)

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

a) Write down the **integers** represented by the arrows:
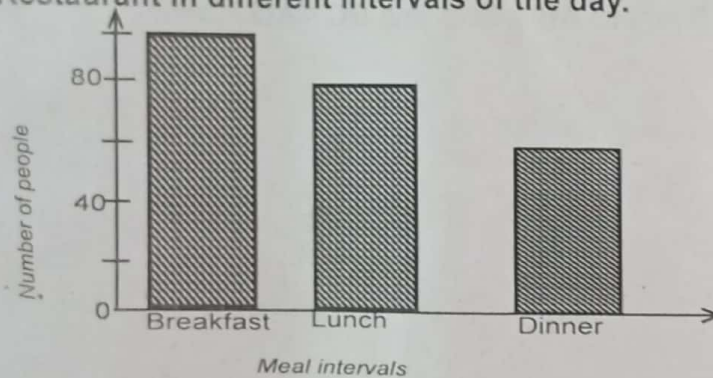
a = _____

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.
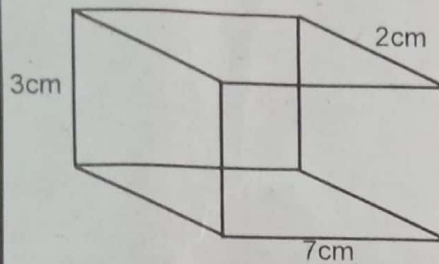
(02Marks)

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 | 3636

(02marks)

c) Subtract 8,345 from 9,000.

(02marks)