THE SIPRO END OF TERM I EXAMINATION-2022

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
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Page 6		
Page 7		
Total		

Please turn over

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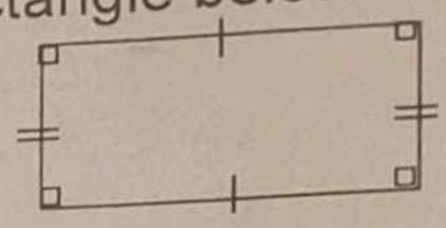
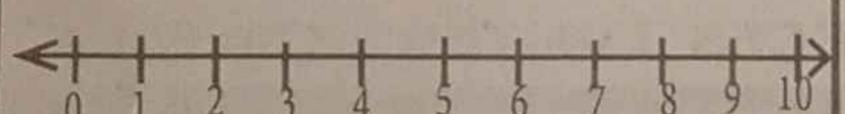
SECTION: 40 MARKS

Attempt **all** *questions in this section*

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

1.	**Work out:** 4 3 - 1 1 _____ _____	2.	Write in **figures**: Twenty-nine thousand, four hundred seventy-nine.
3.	Set **P**={2, 3, 5, 7} and Set **R** ={3, 5, 7, 9} Find n(**P∩R**}	4.	Use a ruler and a pencil to draw all the **folding** lines of symmetry in the rectangle below. 
5.	What number has been represented by the **tallies** below? 𝍸 𝍸 𝍸 𝍸 𝍸	6.	Solve for **x**: **x** + 3 = 12
7.	Use a ruler, a pencil and a **protractor** only to **draw** an angle of 120^0 in the space provided.	8.	Find the **next** number in the sequence: 9, 14, 21, 30, 41, ___
9.	Use a **number line** to add **3+5**. 	10.	**Divide:** $\frac{4}{5} \div \frac{1}{5}$

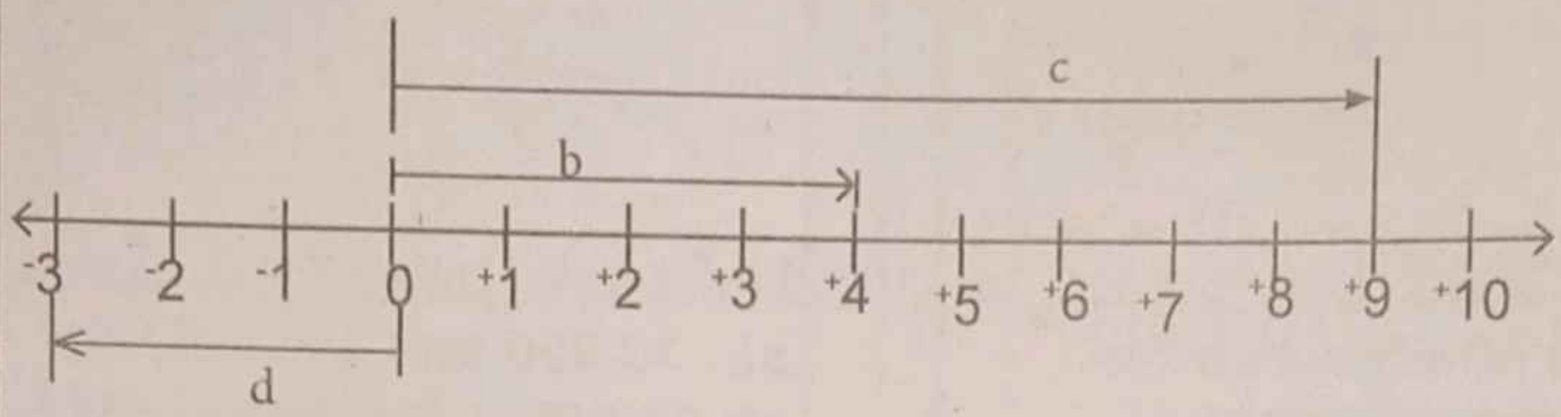
11.	Find the average of 50, 65, 30 and 35.	12.	Work out the **L.C.M** of 9 and 12.
13.	Lule started his journey at **9:30am** and reached his destination at **10:15am.** For how **long** did he take?	14.	Nakibuuka bought a dress at **sh. 30,000** and she sold it at **sh.27,500**. Calculate her loss.
15.	Change **3,500gm** to **kilograms**.	16.	Set K={**a,b**}; list down all **subsets** of set K.
17.	Write **6,954** in expanded form. Use powers of ten.	18.	A house is to be roofed with **1,875** tiles. How many boxes are required, if each box contains 25?
19.	Calculate the **area** of the shaded part. 	20.	Find the **first** equivalent **fraction** to $\frac{2}{3}$

SECTION B: 60 MARKS

Attempt **all** *questions in this section.*

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

21. *Use the arrows shown on the number line to answer the questions that follow.*



a) State the **value** of each arrow:

(i) b = (ii) c = (iii) d =

(03Marks)

b) What **integer** is 4 steps backwards?

(02Marks)

22 a) Convert 37_{ten} to base **five**

(02Marks)

b) **Work out:** $321_{five} - 14_{five}$

(02Marks)

c) Use **digit** 3, 9 and 5 to **form** 3 digit numbers.

(02Marks)

23. In a class of **56** pupils, $\frac{2}{7}$ are **boys** the remaining pupils are **girls**.

a) Find the fraction **of girls**.

(02Marks)

b) How **more** girls than **boys** are in the class?

(03Marks)

24. Below are **unit prices** of items on the shop:
1kg of sugar at sh: **3600**
1kg of rice at **sh.4500**
1tin of blue band at **sh. 6000.**

a) Work out the cost of $2\frac{1}{2}$kg of sugar.

(02Marks)

b) Samuel had **sh.10,000** and he bought 1kg of rice. How much was his **change**?

(02Marks)

c) How much did he pay if all items here bought?

(02Marks)

25 a) Find the **distance** a car will cover at a speed of **90km/hr** for $2\frac{1}{2}$hr.

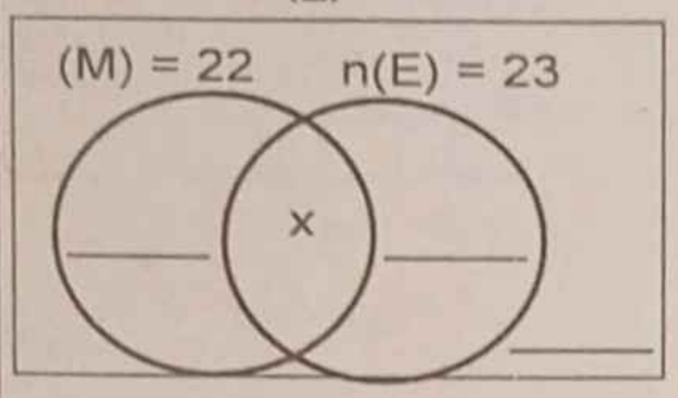
(02Marks)

b) How **long** will the same car at the similar speed take to cover **360km**?

(02Marks)

26 In a class of 40 pupils, 22 pupils like **mathematics(M)**, 23 pupils like English **(E)**, X pupils like both subjects and 4 pupils like none of the two subjects.

a) Represent the above information on the venn **diagram**.

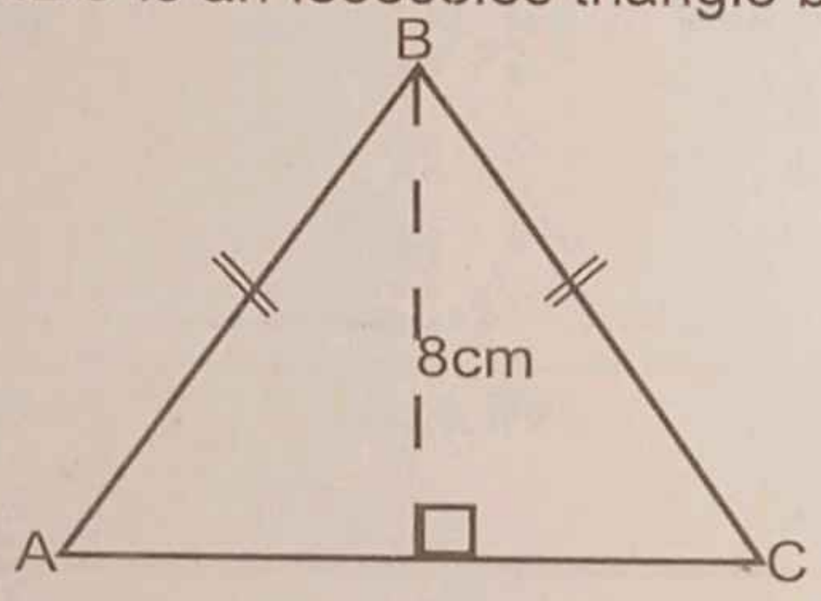


(03Marks)

b) Find the **number** of pupils who like both subjects.

(02Marks)

27. **ABC** is an Isosceles triangle below. If side **AB** = side **BC** =12cm.



a) Find the length of side **AC** if side **AC** is 2cm longer than **BC**.

(02Marks)

b) Work out the **perimeter** of the triangle.

(02Marks)

c) **Calculate** the **area** of the triangle.

(02Marks)

28.a)	Find the **numbers** if 42 is the sum of **three** consecutive **even** numbers. *(02Marks)*
b)	Without **dividing,** show that **543** is divisible by 3. *(02Marks)*
29.a)	Given that m= 4, n= 3 and p = 2.Find the **value** of **(m x n) + p** *(03Marks)*
b)	Find the **missing** number. $\square \div 4 = 12$ *(02marks)*
30. a)	Using a ruler, a pencil and a pair of compasses only, construct **a rectangle ABCD** where side **AB** = 8cm and **AC** = 4cm. *(04marks)*
b)	**Draw** a trapezium. *(02marks)*

31.a) **Divide:** 2530 by 5.

(02marks)

b) A school has **7** classes with **2** streams **each**. How many pupils are in the school if each stream has **40** pupils?

(02marks)

32. Use a scale of 📖 to represent **1 dozen**.

a) Draw picto symbols to represent **3 dozen**.

(01mark)

b) How many books are represented in the above dozen?

(02marks)