

# THE SIPRO END OF TERM III EXAMINATIONS - 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:

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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

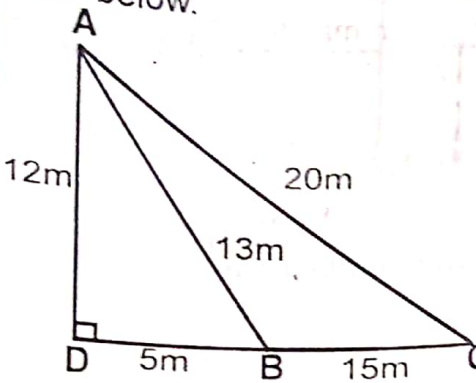
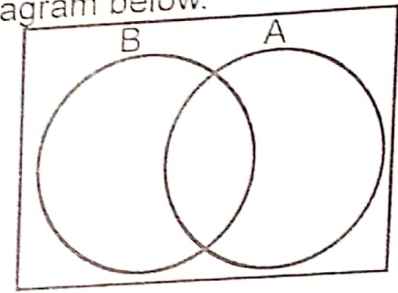
1.	Work out: $12 \times 3$ .	2.	Expand 2,456 using powers of ten.
3.	Find the <b>next</b> number in the sequence: 1, 2, 4, 8, 16, ____	4.	Increase 360 goats in the ratio of 7:6.
5.	The subsets of set P are $\emptyset$ , {1}, {2}, {3}, {1,2}, {1,3}, {2,3} and {1,2,3}. Find the number of subsets in set P.	6.	With the help of a ruler, a sharp pencil and a pair of compasses only, construct an angle of $60^\circ$ .
7.	A mathematics lesson started at 7:30am and lasted for 40 minutes. At what time did it <b>end</b> ?		
8.	Solve: $2m - 6 = 14$	9.	Simplify: $6 - 8$
10.	The cost of a fountain pen is sh.3000. Find the cost of 4 similar pens.	11.	Draw bundles to represent 38.



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IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOK, WORKSHEETS, GUIDES AND PRACTICE BOOKS

12.	<p>Find the area of the triangle ABC below.</p> 	13. Angle $b$ and $28^\circ$ are complementary angles. Find the size of angle $b$ .
14.	Musa used Ug.sh.1,800,000 to buy a shirt in US dollars. Find how much he spent in dollars. If one dollar is equivalent to Ug.sh.4500.	15. Shade set $A-B$ in the venn diagram below. 
16.	Calculate the circumference of a circle whose diameter is 28cm. (use $\pi = \frac{22}{7}$ )	
17.	Simplify: $3p + w - 2p$	18. If $\frac{1}{4}$ of a number is 20; Work out the number.





19.	Express 36 as a product of its prime factors.	20.	Round off 4685 to the nearest hundreds.
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### 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 meeting attended by 70 people, 40 took soda (s), 35 took mineral water(w), 6 took neither soda nor mineral water while K took both kinds of drinks.
- a) Complete the venn diagram below.
- $n(\epsilon) = 70$
- $n(s) = 40$        $n(w) = 35$
- b) Find the value of K.
- (03Marks)
- (02Marks)
22. Katabalwa, Kiboko and Kidoma shared sh.360,000 in the ratio 3:5:2 respectively.
- a) How much did each get?
- (03Marks)
- b) Express Kidoma's share as a percentage.
- (02Marks)



- 23.a) Use a ruler, a pencil and a pair of compasses to construct a triangle **MNP** where  $\angle MNP = 90^\circ$ , line **NM** = 6cm and **NP** = 7cm

- b) Measure line **MP**.

(04Marks)

24. The table below shows the buying and selling rates at Stanbic bank of currency. Use it to answer the questions that follow.

(01Mark)

Currency	Buying rate	Selling rates
1Ksh	Ugsh 29	Ugsh 30
1US dollar	Ugsh 3500	Ugsh 3600

- a) If Ssuuna went to the bank with **400 dollars**, how much money in Uganda shillings did he get from the bank?

(02Marks)

- b) A tourist left Kenya for USA with **Ksh 720,000**. How many **USA** dollars did he get from the bank?

(03Marks)



27.

A motorist started his journey at 7:30am travelling at a steady speed of 7km/h for 3hours from home to the working place.

- a) Find the distance he covered.

(02marks)

- b) At what time did he reach the working place?

(02marks)

28. a) Write 2,456 in words.

(02marks)

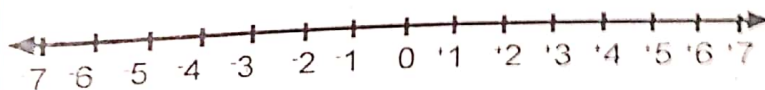
- b) What number has been expanded to give;  
 $(7 \times 10^2) + (3 \times 10^1) + (5 \times 10^0)$ ?

(02marks)

- c) Mugwana weighs 64kg. Write his mass in Roman numerals.

(02marks)

29. a) Work out  $4 + -7$  using the number line below.



(03marks)

- b) Find the integer which is 7 steps to the right of 3.

(02marks)



25	<p>The sum of three consecutive counting numbers is 36.</p> <p>a) Find the numbers.</p>	b)	<p>Find their range.</p>
	(03Marks)		(02Marks)
26.	<p>The figure below shows a triangle enclosed in a square of side 10m. Study it carefully and answer the questions that follow.</p> <div data-bbox="635 712 1066 987" data-label="Image"> </div> <p>a) Find the area of the triangle.</p> <p>b) Work out the area of the square.</p> <p>c) Calculate the area of the shaded part.</p>		
	(01Mark)		



30. a) Nelson is 37 years old and Karamagi is 17 years old.  
After how many years will Nelson be twice the age of Karamagi?

b) How old will each be then? (03marks)

(02marks)

31. Use the table below to answer the questions that follow.

marks	70	90	80
pupils	3	2	5

a) Find the number of pupils who sat for the test.

b) Find the mean mark. (02marks)

(03marks)

32. a) Work out:  $\frac{0.48 \times 0.6}{0.012}$

b) Change 0.6 to a common fraction.

(03marks) (02marks)

