

THE SIPRO MID-TERM III 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		
Total		

Please turn over



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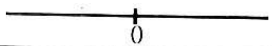
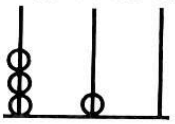
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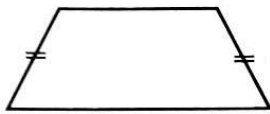
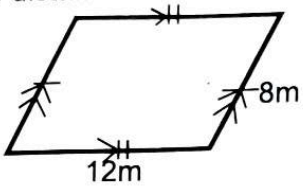
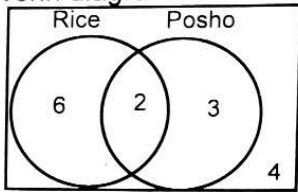
SECTION A: 40 MARKS*Attempt all questions in this section*Questions 1 to 20 carry **two** marks each

1.	Work out: 7×4	2.	Find the number which has been expanded to give: $(4 \times 10^2) + (8 \times 10^0) + (3 \times 10^1)$
3.	Given that set B = {composite numbers less than 9} List all subsets of set B.	4.	Daphine is 13 years old. Find the square of her age.
5.	Arrange 0, -4, +1, -5 and +4 in decreasing order.	6.	The average weight of five boys is 34kg . Find their total weight.
7.	Solve: $2p + 3p = 50$.	8.	Jackie sold a watch to Andrew at sh. 5300 making a profit of sh.1700. At what price did Andrew buy the watch?



9.	Increase 78 votes in the ratio of 3:5.	10.	A box of pens contains 30 blue pens and 20 black pens. Find the probability of picking a black pen from the box.
11.	The tank holds 5 litres of water. Express its capacity in millilitres .	12.	Using a ruler, a pencil and a protractor, draw an angle of 90° at point O. 
13.	Write the number on the abacus below in words . Five Fives Fives ones 	14.	Complete correctly using $>$, $<$ or $=$. $-2 + 3$ _____ $-7 + +4$
15.	A trader borrowed sh.4,000,000 from a bank at an interest rate of 2% per year for 3 years. How much interest did he pay?	16.	Express 180 minutes to seconds .



17.	<p>Show and write the number of lines of folding symmetry in the figure below.</p> 	18.	<p>The spider moved around the figure below three times. Find the distance it covered.</p> 
19.	<p>Kandyang bought a dozen of counter books at sh 4000 each book. How much did he pay altogether?</p>	20.	<p>Find the probability of picking a learner who only likes rice using the venn diagram below.</p> 

SECTION B: 60 MARKS

Attempt **all** questions in this section.

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

21. Crystal, Praise and Ivan shared **132** hectares of land in the ratio of **2:3:7** respectively.
- a) How many **hectares** did each get?
- b) If Ivan gives **20** hectares of land to his friend, how many hectares will he remain with? (04marks)
- (02marks)



22 a)	A square garden has an area of 225 square metres. Find the side of the square garden.	
b)	Find the sum of the first 10 counting numbers.	(02marks)
23.	Samson stood in the centre, he moved 5 steps to the right and then continued from where he stopped 8 steps to the left.	(02marks)
a)	Find his last step using a number line.	
b)	Work out the additive inverse of -5 .	(03marks)
24.	Sasha has a dairy cow that produces 25 litres of milk a day. Out of the litres collected in a week, she leaves 35 litres for her family and the rest are sold.	(02marks)
a)	Find the litres sold in a week.	
b)	A lorry carries 150 bags of cement in a trip. If each bag weighs 50kgs , How many kilograms does it carry in a trip?	(03marks)
		(02marks)



25. a)	Work out: $\frac{0.45 \times 0.3}{0.15}$ (03marks)	b)	Simplify: $\frac{1}{2} - \frac{3}{4} + \frac{4}{5}$ (03marks)
26. a)	A staff meeting started at 9:20am ended at 12:10pm. How long did the meeting take? (03marks)		
b)	A bus left Kampala for Soroti at a steady speed of 70km/h. If it arrived at Soroti at 4:50pm and the distance between Soroti and Kampala is 210km; At what time did the journey start? (03marks)		
27. a)	Using a pencil, a ruler and a pair of compasses only, construct a six sided polygon in a circle of radius 3cm. (02marks)		
b)	Find its perimeter. (03marks)		

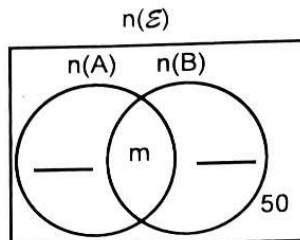


<p>28. a) Simplify: $6y - 2x - 4y + 7x$.</p> <p>(02marks)</p>	<p>b) Given that $a = 5$, $b = 2$ and $c = 4$. Evaluate $ab + c$.</p> <p>(02marks)</p>
<p>29. The circle graph below shows how a man spends his monthly salary of sh. 300,000. Use it to answer the questions that follow.</p> <div data-bbox="507 651 703 835" data-label="Figure"> </div> <p>a) Find the value of f.</p> <p>(02marks)</p> <p>b) How much does he spend on food more than fees?</p> <p>(02marks)</p> <p>c) Express the amount of money spent on rent as a percentage.</p> <p>(02marks)</p>	
<p>30. Study the figure below and use it to answer the questions that follow.</p> <div data-bbox="395 1279 895 1473" data-label="Figure"> </div> <p>a) Find the distance round the figure.</p> <p>(02marks)</p> <p>b) Calculate the area of the figure.</p> <p>(03marks)</p>	



31. In a group of fans, **20** fans support Arsenal (A) **only**, **30** fans support Barcelona (B) and "**m**" fans support both clubs while 50 support other clubs.

a) Use the above information to **complete** the venn diagram below.



(02marks)

b) If **37** fans support Arsenal, Find the **value** of **m**.

(02marks)

32. The exchange rate at a forex bureau is as follows;

1US dollar = Ug sh 3600

1K sh = Ug sh 30

a) A tourist left **USA** with 600 **USA** dollars to Kidepo Valley National Park in Uganda. How **much** did he get in Uganda shillings?

(02marks)

b) Wako has Ug **sh.270,000** and went to the forex bureau to change to Kenya shillings.
How many Kenya shillings did he get?

(02marks)

