# THE SIPRO PRE-PLE SET IV - 2024

### MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

	EMIS No.			Personal No.				
Index No.	,							
Candidate's I	Name:							
Candidate's	_							
School EMIS	No:							
District: ID:								

## 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).
- Attempt all questions in both sections. All answers to both sections A and B must be written in the spaces provided.
- All answers must be written in blue or black ball point pens or ink. Only diagrams and graph work must be done in pencil.
- 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;

Qii No	MARKS	INITIALS
1-5		
6-10		
11-15		
16 -20		
21-22		
23-24		
25-26		
27 _6		,
29-30		,
31-32		
Total		

Please turn over



THE SIPRO EDUCATIONAL SERVICES LIMITED - KAMPALA

PUBLISHERS OF THE SIPRO TEACHERS' GUIDES, LEARNER'S WORKBOOKS & PUPIL'S COMPANIONS



Simplified Learning Today

#### **SECTION A: 40 MARKS**

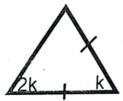
Attempt all questions in this section.

Questions 1 to 20 carry two marks each.

1. Work out: 50 ÷ 5.

- 2. Write seven hundred thirty four in Roman numerals.
- 3. Simplify: 3k + 7r 4k + 5n.

- 4. Write 909,909 in words.
- 5. In the triangle below, find the value of  $\mathbf{k}$  in degrees.



6. Work out: 111<sub>two</sub> x 10<sub>two</sub>

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7. A dice is tossed once. Find the probability that an odd number will appear on top?

8. The clock face below shows time in the morning.



Write the time shown in 24-hour clock.

9. In the space given below, draw an angle of 75° using a ruler, a pencil and a protractor.

10. Express 4.5 litres into millilitres.



 The diagram below shows the length of the stride a certain boy makes while walking.



How many such strides does he make to cover a distance of 800cm?

12. Change  $15_{ten}$  to binary base.

13. Find the smallest number that leaves 5 as a remainder when divided by 6,8 and 12.

14. A dozen of exercise books costs **sh.14,400**. Find the cost of **6** similar exercise books at the same rate.

15. In a P.5 class at St. Andrews Molly Foundation School Pabo, the ratio of boys to girls is 3:2 respectively. Find the number of girls if there are 36 boys in that class.

16. Work out: 4 - 0.48.

17. Find the solution set for: m + 2 < 6.

18. Three men can dig a garden in 20 days. How many men working at the same rate can dig the same garden in 12 days?

19. The profit of an item sold at sh. 20,000 was sh. 5,000. Calculate the cost price of the item.

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20. When Juma was instructed by the teacher to form all the possible proper subsets from set H, Juma formed 7 proper subsets and the teacher awarded him all the marks for that question. How many elements did Juma use to form the proper subsets?

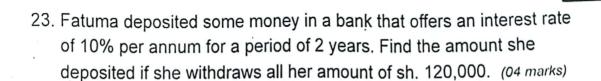
#### **SECTION B: 60 MARKS**

Attempt all questions in this section. Marks for each part of the question are indicated in the brackets 21. a) At 5:00a.m, the temperature on top of a mountain was 40c and by 11:00a.m, it had risen by 9°c. Find the new temperature. (02 marks)

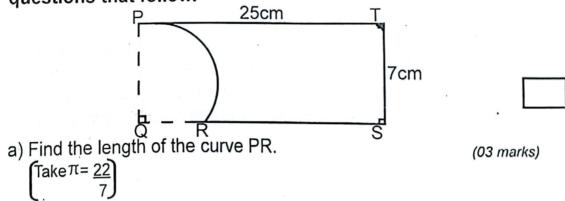
b) A Sipro mathematics conference that started on Monday lasted 10 days. On what day of the week did it end? (03 marks)



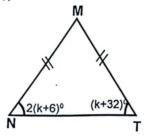
22. Kasadha spends his daily income as follows:
water sh. 2,500, bread sh. 3,500, bananas sh.4,000 and saves
sh. 2,000.Draw a pie chart of radius 3.5cm to represent the
above data.
(06 marks)



24. Study the figure below carefully and use it to answer the questions that follow.



25. MTN is an isosceles triangle. Study and use it to answer the questions that follow.



a) Find the value of k.

(02 marks)

b) Work out the size of angle NMT.

(03 marks)

26. a) A watermelon weighs 17kg. Kamoga cut it into three pieces. When he weighed the pieces, one of the pieces weighed 2kg heavier than the smallest piece and the other 6kg heavier than the smallest piece. Find the mass of the smallest piece.

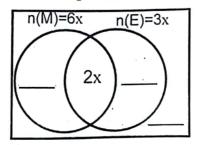
(03 marks)

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b) **Solve**: 4n < 16.

- 27. The Venn diagram below shows the number of pupils who like English (E), Mathematics (M) and other subjects in a P.5 class at Blessed Future Primary School, Kazinga. (6x) pupils like Mathematics (M), (3x) pupils like English (E), 2x pupils like both subjects while the number of pupils who like neither of the two subjects is equal to that of those who like English only. If you subtract the number of pupils who like English only from that of those who like Mathematics, you get 25 pupils.
  - (a) Complete the venn diagram below.

(03 marks)



(b) Find the value of  $\mathbf{x}$ .

(02 marks)



28. The volume of the cuboid below is 918cm3. Find the area of the shaded part. 6cm 29.A motorist driving at 72km/hour took 5 hours to cover the journey from Kampala to Jinja. He then returned to Kampala driving at 120km/h. (02 marks) (a) How far is Jinja from Kampala? (b) Calculate his average speed for the whole journey. (03 marks) © Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911 IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEALS, THIS GOIDES AND PUPIL'S COMPANIONS.

30.In a test, a teacher awarded 5 marks for every correct answer and
subtracted 2 marks for every wrong answer. The test paper had 20
questions.

a) Fi	nd Rhva	n's score	e if he	got 17	correct	answers.
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(02 marks)

correct answers did she get?	marks, how i	b)If Rauder got 51
(03 marks)		

- 31.In the Old and the New Taxi Parks, there are 60 and 90 taxis respectively. The top management of the taxis in Uganda would like to group the taxis into small groups of equal number of taxis and appoint a leader for each small group of taxis.
  - a) Find the maximum number of taxis that can be put in each group without any taxi remaining. (02 marks)



- b) How many groups will be formed from the taxis in the New
  Taxi Park?

  (02 marks)
- 32. Namuleme Shanitah went shopping and bought the following items for each of her twin boys;

ITEM	QUANTITY	UNIT COST	AMOUNT
shoes	2 pairs	sh.30,000 each pair	sh
stockings	4 pairs	sh. 8,000 each pair	sh.32,000
blankets	1 piece	sh. 90,000 each piece	sh.90,000
Total			sh

a) Complete the above table.

(02 marks)

b) Calculate her change if she went with ten notes of 50,000 shillings each. (03 marks)