# THE SIPRO PRE-PLE SET IV - 2024

#### MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

	EMIS No.			Personal No.		
Index No.						
Candidate's Name:						
Candidate's Signature:						
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.
- 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:

Qn No	MARKS	INITIALS
1-5		
6-10		
11-15		
16 -20		PER PRINT
21-22		
23-24		
25-26		
27 _8		
29-30		
31-32		
Total		

Please turn over



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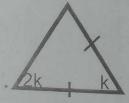


### SECTION A: 40 MARKS

Attempt all questions in this section. Questions 1 to 20 carry two marks each.

- 1. Work out: 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 k in degrees.



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



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7. A dice is tossed once.	Find the probability that	an odd	l 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. .



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11. 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<sub>ten</sub> 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.



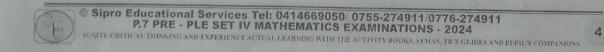
In a P.5 class at St. Andrews Molly Foundation School Pabo, the ratio of boys to girls is 3:2 respectively. Find the number of girls if there are 36 boys in that class.
the so boys in that class.

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.



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 4°c and by 11.00a.m., it had risen by 9°c. Find the new temperature.

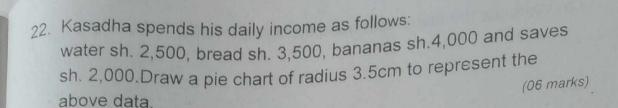
b) A Sipro mathematics conference that started on Monday lasted 10 days. On what day of the week did it end? (03 marks)

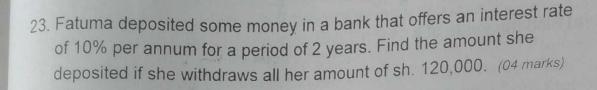


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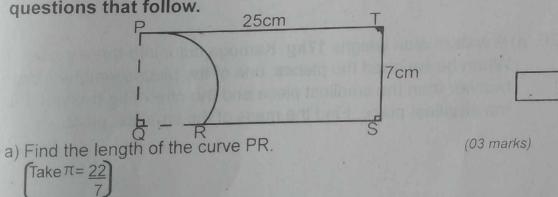
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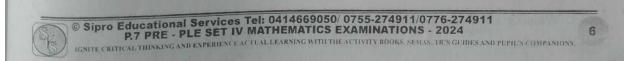




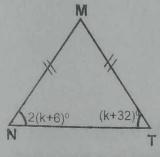


24. Study the figure below carefully and use it to answer the questions that follow.





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.

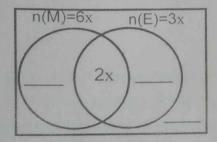
(03 marks)

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)

- 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 x.

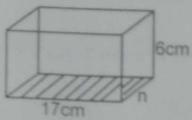
(02 marks)



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28. The volume of the cuboid below is 918cm<sup>3</sup>. Find the area of the shaded part.



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.

(a) How far is Jinja from Kampala?

(b) Calculate his average speed for the whole journey.

(03 marks)

- 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) Find Rhyan's score if he got 17 correct answers.

(02 marks)

b)If Rauder got 51 marks, how many correct answers did she get?

(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)



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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)



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