THE SIPRO P.7 MOCK II - 2024

MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

Random No.	Personai No.
	// // //
	4
ə:	
	THE ADD TO SE
	A CONTRACTOR OF THE PROPERTY O
	Random No.

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;

Qn No	MARKS	INITIALS
1- 5		
6 -10 .		
11-15		
16 -20		
21-22		
23 -24		
25-26		
27-28	Lachtine	is alad an
29 -30	OE In ale	
31-32		
Total		

Please turn over



THE SIPRO EDUCATIONAL SERVICES LIMITED - KAMPALA

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



SECTION: 40 MARKS

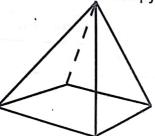
Attempt all questions in this section.

Questions 1 to 20 carry two marks each.

1. Work out: 204

- 9 3

2. How many vertices has the pyramid below?



3. Express 13_{ten} to base two.

4. Work out: $1\frac{1}{2} + 3$

5. With the help of a ruler, sharp pencil and a pair of compasses only, construct an angle of **30**° in the space provided below.



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

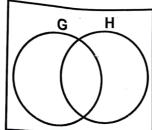
IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TR'S GUIDES AND PUPIL'S COMPANIONS.

4

6. The temperature of a place was 27°C. If it rose by 5°C, work out the new temperature.

THE PART OF

- 7. Ocol sold a bicycle at sh.205,000 and made a loss of sh.63,000. Calculate the buying price of the bicycle.
- 8. In the Venn diagram below, shade the region (G-H)^I



- 9. A bag contains **6** ripe mangoes and **7** raw ones. If a mango is picked from the bag at random. Find the probability of picking **a ripe** mango.
- 10. The time is 25 minutes to midnight. Express this time on the 24 hour



11. How many prime numbers are there between 10 and 20?

12. Work out: 2 – 6 (finite 7) using a clock dial.



13. Sumaya deposited **sh.130,000** in the bank. If the interest 8% per month, how much interest did she get after 6 mon

14. Round off **48.97** to the nearest tenths.

16. Mark waited for his brother from 7:45 a.m to 12:05 p.m. How long did he wait? he wait?

Find the length of the semi-circle. Find the length of the wire that formed the diameter of the semi-circle. use $\pi = 22$



18. Work out: (16 × 41) - (21 × 16)

19. A milk can holds 560 centilitres. How many litres of milk does it hold?

20. In a P.5 class, there are **24** and **30** pupils in streams **A** and **B** respectively. In each stream, groups with equal number of pupils were formed. Find the largest number of pupils in each group.



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911 P.7 MATHEMATICS MOCK II EXAMINATIONS - 2024

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TR'S GUIDES AND PUPIL'S COMPANIONS.

SECTION B: 60 MARKS

- Marks for each part of the question are indicated in the brackets
- 21. Out of the 30 chicken farmers, 15 rear broilers (B), x rear layers (L), 5 keep both types of chickens while (x-2) do not rear the mentioned types of chickens.
 - (a) Use the above information to complete the Venn diagram below.

 (03 marks)

 $n(\mathcal{E}) = 30$ n(B)=15 n(L)=x5

- (b) Find the number of farmers who keep only one type of chicken. (02 marks)
- 22. (a) Express 200 as a product of its prime factors.

(02 marks)

(03 marks)

(b) The area of a square garden is 1.96 sq.km. Work out the length (02 marks) of each side of the garden.



- 23. During the recent census in Kasaato Village, it was found that 500 people were employed, while 60% of the population was unemployed.
 - a) Find the total number of people in Kasaato Village.

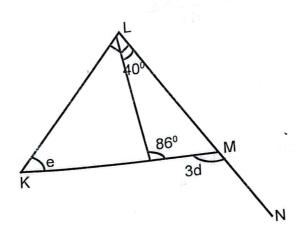
(03 marks)



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911 P.7 MATHEMATICS MOCK II EXAMINATIONS - 2024

IGNITE CRITICAL/ILINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TH'S GUIDES AND PUPIL'S COMPANIONS

- b) By what percentage is the number of unemployed people greater than the number of a marks) than the number of employed people?
- 24. In the figure below, angle KLM = 90°. Study and use it to answer the questions that follow.



Find the size of;

(a) angle d

(02 marks)

(b) angle e

(02 marks)

25.(a) **Solve:**18-t = 3 + 2t

(03 marks)

(b) Given that a*b means 2a + 2b; Find the value of 5 * 7. (02 marks)

© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911

P.7 MATHEMATICS MOCK II EXAMINATIONS - 2024 P.7 MATHEMAILO WOOD II EARWHMAILOND - ZUZ4

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TR'S GUIDES AND PUPIL'S COMPANIONS.

6

26. In a class, the average age of 30 girls is 8 years and the average age of 20 boys is 13 years. Find the average age of all the children in that class.

india c



27. (a) Work out: (5.1 × 3.2)

(b) **Simplify:**
$$\frac{5}{6} - \frac{1}{2} \div \frac{3}{4}$$

(02 marks)

28. The table below shows the denominations, number of notes and amount Betty deposited in the bank.

Denominations	number of notes	Amount
sh. 50,000	40	sh
Sh. 20,000		sh. 1,000,000
sh	80	sh. 800,000
sh	100	sh
Total	I Dem	sh. 4,300,000

Use the information to complete the blank spaces above.

(05 marks)



© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911
P.7 MATHEMATICS MOCK II EXAMINATIONS - 2024
IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTUAL PROPERTY.

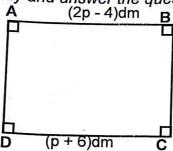
7

of its journey. The remaining journey was covered in 3 hours at 60 kilometres per hour.

(05 marks)

Study the rectangle ABCD below is 240dm².

Study the rectangle carefully and answer the questions that follow.



a) Find the value of **p**.

(02 marks)

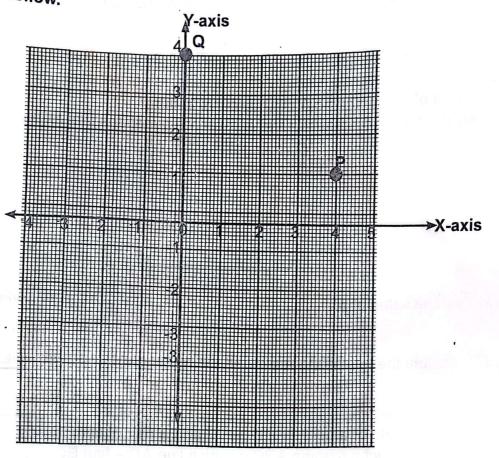
) Calculate the total **distance** round the rectangle.

(03 marks)

only, construct a triangle ABC in which line AC = line BC, line AB = 8 cm and angle ABC = 45°. (05 marks)

ipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911 P.7 MATHEMATICS MOCK II EXAMINATIONS - 2024

E CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TR'S GUIDES AND PUPIL'S COMPANIONS.



(a)Write down the coordinates of the points P and Q.

(02 marks)

i) P

ii) Q

(b) Plot the points R (-1, 1) and S(0, -2) on the graph.

(02 marks)

(c) Join P to Q, Q to R, R to S and S to P and name the geometric figure formed. (02 marks)





© Sipro Educational Services Tel: 0414669050/ 0755-274911/0776-274911 P.7 MATHEMATICS MOCK II EXAMINATIONS - 2024

THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TR'S GUIDES AND PUPIL'S COMPANIONS.