



PEAK JUNIOR SCHOOL NAKABUGO

P.7 BEGINNING OF TERM I EXAMINATIONS

2025

MATHEMATICS SET 5

Time allowed: 2 hours 30 minutes

Candidate's name:

Read the following instructions carefully:

1. This paper has two sections A and B.
Section A has 20 questions and section B has 15 questions.

2. Answer all questions. All the Working must be shown in the spaces provided.

3. All working must be done using a blue or black ball point pen or ink.

4. Unnecessary changes in your work and handwriting may lead to loss of marks.

FOR EXAMINER'S USE ONLY

SECTIONS	MARKS	COMM.
SEC A		
SEC B		
TOTAL		

5. Do not fill anything in the table indicated "For examiners' use only".

Turn Over

SECTION A (40 marks)

1. Workout: $5.25 + 12.53$

2. Solve: $3h - 5 = 1$

3. Draw a right angle in the space provided below.

4. Simplify $+7 - +5$ using a number line.

5. At what speed shall a driver cover a distance of 144km in 3hours?

6. A number was prime factorized to give $\{2_1, 2_2, 3_1, 3_2\}$. Find the number.

7. Workout:

	Litres	Millilitres
	3	270
+	1	350
<hr/>		
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8. Express 4:5 as a percentage.

9. In a school two bells are rung at an intervals of 30 minutes and 40 minutes respectively change lessons. After how many hours will the two bells be rung together?

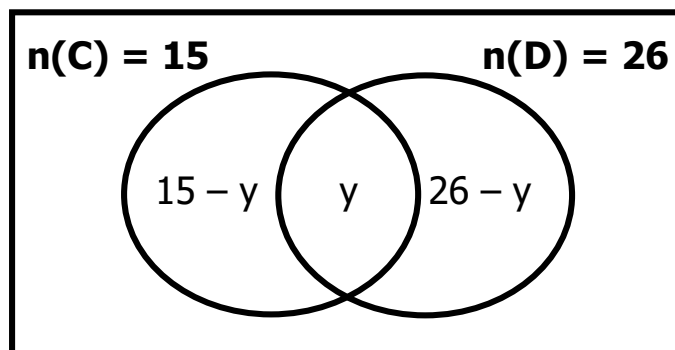
10. Given that the **LCM** of 16 and y is 48 and their **GCF** is 4. Find the value of y.
11. A bus carries 84 passengers each trip. Find the number of passengers it will carry if it makes 18 trips.
12. Workout 143×16 using lattice method.
13. Find the value of unknown base in $102_{\text{four}} = 24_m$

14. List down the first five triangular numbers.

15. Write 15.007 in words.

16. The venn diagram below represents number of people in a village who rear chicken and dogs. Use it to find the probability that a farmer picked at random rears dogs only.

$$\pounds = 35$$



17. After covering two thirds of a journey, a motorist still had 40km to cover. How long was the whole journey?
18. A man deposited sh. 40,000 for 5 years at a simple interest rate of $2\frac{1}{2}\%$ per year. Calculate his simple interest.
19. The quotient of two numbers is 16, find the other number if the second number is 6.
20. Find the range of 2, 4, -3, 6, -7, 14 and 1.

SECTION B (60 marks)

21. The sum of three consecutive natural numbers is 36. If the small number is $k - 2$.

a) Find the value of k . ***(3 marks)***

b) Write the middle number in Roman numerals. ***(2 marks)***

22. A car moved a distance of 225km in 2 hours and 30 minutes. If it returned through the same distance and took the same time.

Calculate its average speed. ***(5 marks)***

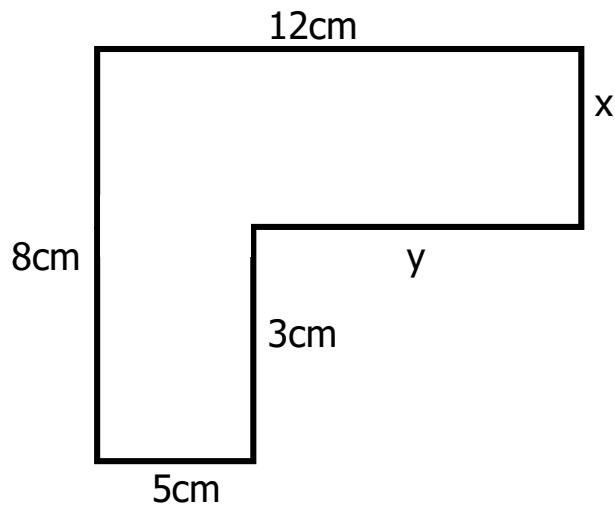
23. Using a pair of compasses, a sharp pencil and a ruler only, construct a pentagon of sides 5cm in the space provided below. **(5 marks)**

24. Hasifah withdrew bank notes numbered from AP003783 to AP003881.

a) How many bank notes did she withdraw? **(2 marks)**

b) If each bank note was sh. 2,000. How much money does she have? **(3 marks)**

25. Study the figure below carefully.



Find the value of;

(2 marks each)

a) X

b) Y

c) Calculate the area of the figure.

(3 marks)

26. Abdul went to the market and bought the following items:

ITEM	QUANTITY	UNIT COST	AMOUNT
Cooking oil	1,500 ml	Sh. _____	Sh. 10,500
Sugar	_____ kg	Sh. 4,000	Sh. 12,000
Meat	2kg	Sh. 15,000	Sh. _____

a) Calculate his total expenditure. **(4 marks)**

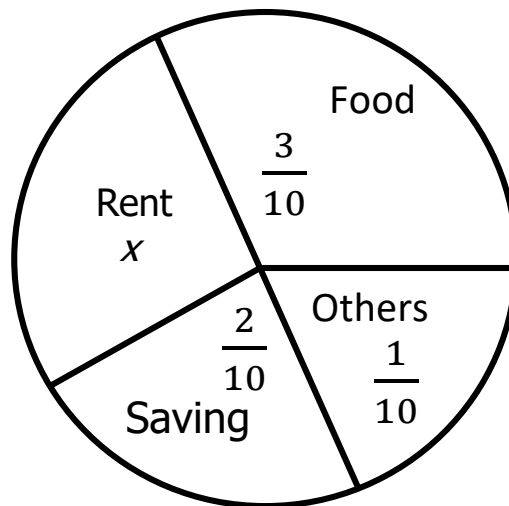
b) If he was given a balance of sh. 7,500. How much did he have at first? **(1 mark)**

27. (a) What is $2\frac{1}{3}$ of $30 + 10 \div 5$ **(3 marks)**

(b) State if 1435 is divisible by 3 without dividing.

(2 marks)

28. The pie chart below shows how a watchman spends his monthly salary of sh. 300,000. Study it carefully.



a) Change the sector of food in degrees.

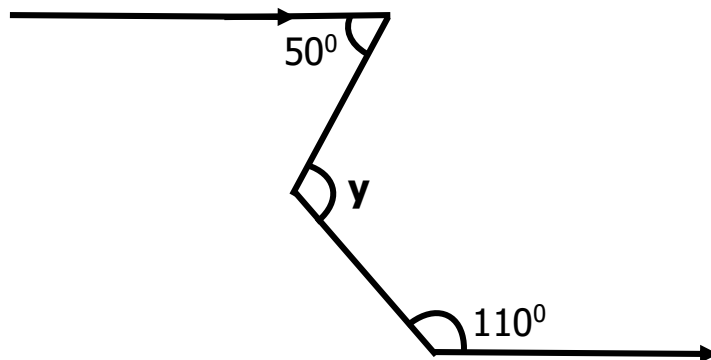
(2 marks)

b) How much more does he spend on rent than saving?

(3 marks)

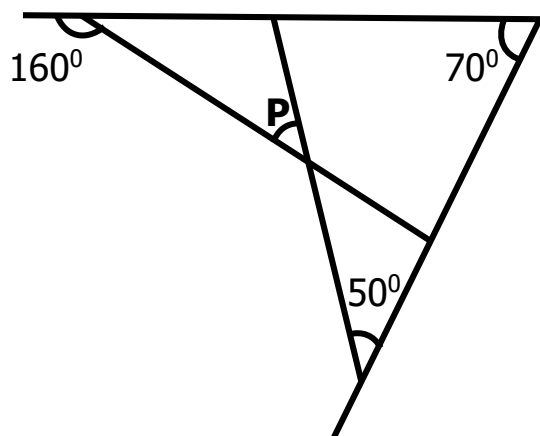
29. (a) Find angle marked **y**.

(2 marks)



(b) Find the size of angle **p**.

(3 marks)



30. Marks scored by some pupils are represented in the table below.

Marks	Freq.	Total
54	3	162
64	2	_____
_____	3	210
85	_____	240

a) Complete then frequency table.

(3 marks)

b) Find the mean.

(2 marks)

31. (a) Simplify: $\frac{1}{3}(3a + 9a)$ **(2 marks)**

(b) Solve for k. $\frac{1}{2}(k + 1) + \frac{1}{3}(k - 2) = 6$ **(3 marks)**

32. (a) Workout the additive inverse of -11. **(2 marks)**

(b) Simplify $-6 + -5$ using a number line. **(3 marks)**