

SECTION A: 40 MARKS

Attempt all questions in this section

Questions 1 to 20 carry two marks each.

1. Work out:

$$\begin{array}{r} 3 \ 2 \ 3_{\text{two}} \\ - 1 \ 1 \ 2_{\text{two}} \\ \hline \\ \hline \end{array}$$

2. Simplify: $3a + 2a - a$.

3. Work out:

Years	Months
8	8
- 4	9
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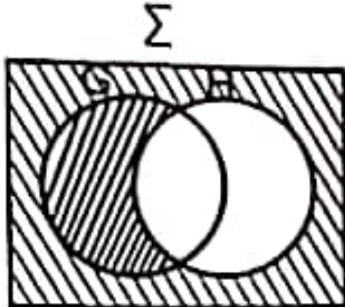
4. Find the Highest Common Factor of 18 and 24.


5. Express 2:5 as a decimal fraction.



6. Wakoko was born in 1986. Express his age now in **Roman numerals**.

7. Describe the shaded region.



8. Given that  represents 7 glasses. Draw pictos to represent 70 glasses.

9. Lopege sold 5 loaves of bread each at Sh. 6,000 making a profit of Sh. 7500. At what price did he buy each loaf?

10. Calculate the square of 16.

11. Simplify: $-7 + 2$.

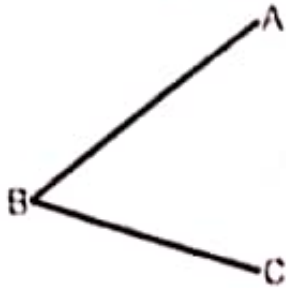


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12. Measure angle **ABC** in the figure below.

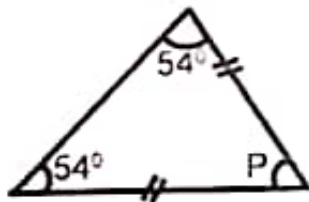


13. Solve the equation: $2y + 7 = 9$.

14. Calculate the circumference of a circle whose radius is **56cm**.

(Use $\pi = \frac{22}{7}$)

15. The triangle given is of an isosceles triangle. Find the size of angle **P**.



16. Peter is 24kg heavier than Mike. If their **total weight** is 100kg, what is the weight of Peter?



29. (a) Work out:

$$\begin{array}{r} 56423 \\ + 7965 \\ \hline \\ \hline \end{array}$$

(02 Marks)

(b) Express 7036 in standard form.

(02 Marks)

30. (a) The sum of 3 consecutive odd numbers is 57. Find the number.

(03 Marks)

(b) Find the product of the smallest and largest numbers

(02 Marks)

31. (a) Work out: $-6 + +4$ using a number line.

(03 Marks)

(b) A boy jumps 4 times backwards of 3 steps each. Find the total steps the boy made together.

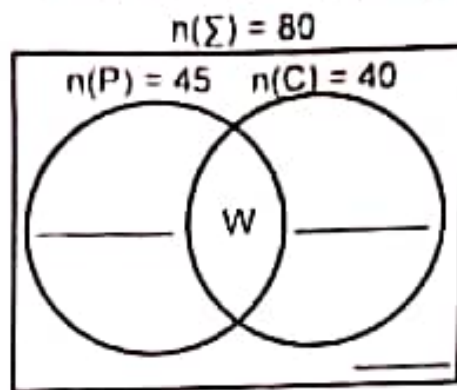
(02 Marks)



27. In Omuriana village of 80 farmers, 45 grow sweet potatoes (P), 40 grow cassava (C). W grow both while 15 grow other crops.

(a) Use the above information to complete the Venn diagram below.

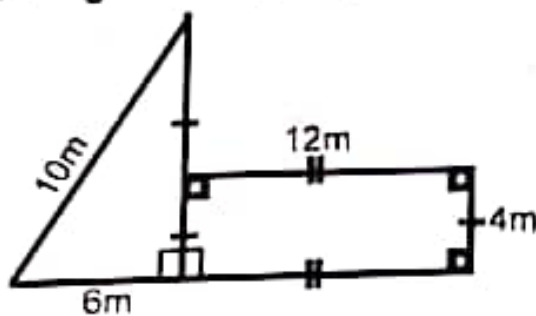
(03 Marks)



(b) Find the number of farmers who grow both crops.

(02 Marks)

28. Use the figure below to answer the questions that follow.



(a) Find the area of the figure.

(03 Marks)

(b) Work out the distance round the figure.

(02 Marks)

(b) If one had sh. 150,000, find the change.

(01 Mark)

22. A father had 3 boys. Ekwelu, Eeru and Esikau and gave the land to them in the ratio of 4:3:2 respectively,

(a) How many acres did each get if the size of the land was 36 acres?

(03 Marks)

(b) Express Eeru's acres as a percentage.

(02 Marks)

23. (a) Given that $y > 2$. Write the solution set for y .

(02 Marks)

(b) Think of a number, double it and add 4 to it, the result is 20. What is the number?

(03 Marks)



- 24 (Using a ruler, a pencil and a pair of compasses only, construct a regular hexagon of diameter 8cm. (03 Marks)



- (b) Find its perimeter. (02 Marks)

25. Samhong started his journey at 7:30a.m. driving at a steady speed of 60km/h from his home to town where he arrived at 10:00a.m.

- (a) Find the time he spent travelling. (02 Marks)

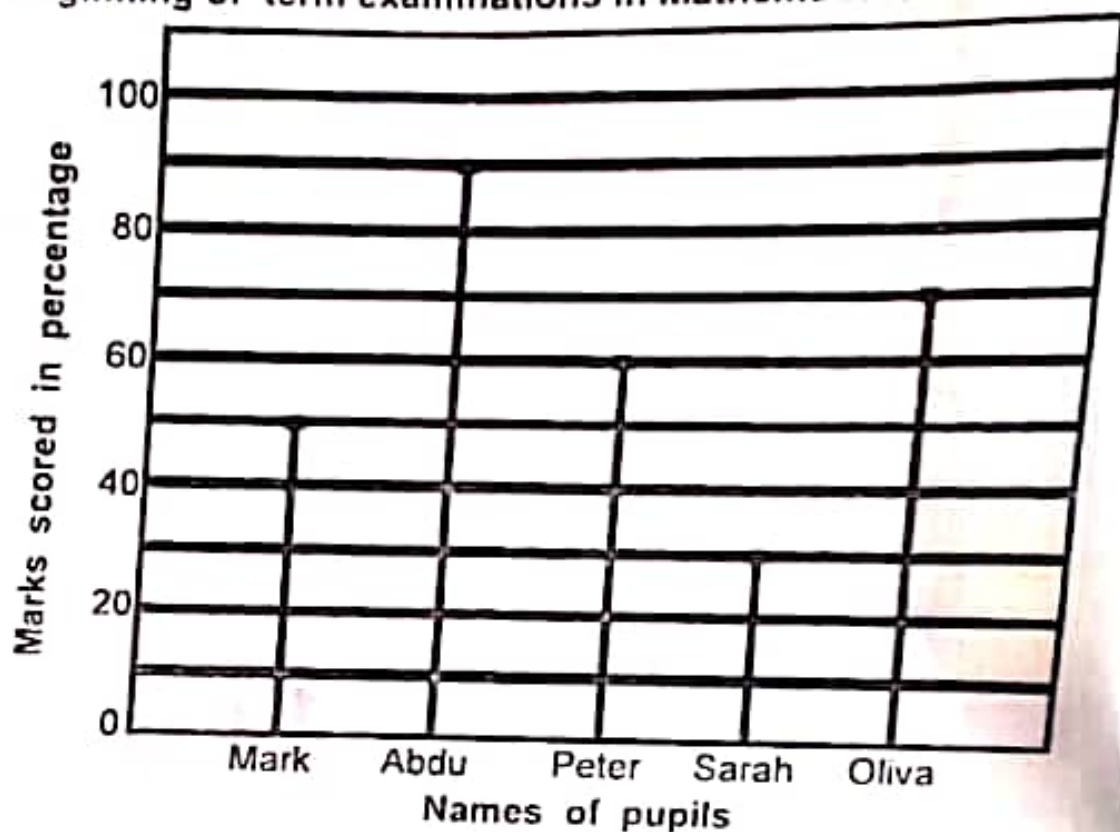
- (b) Calculate the distance he covered from home to town. (02 Marks)

- 26.(a) Work out: $110_{\text{two}} - 11_{\text{two}}$ (2 Marks)

- (b) Solve for p: $42p = 38$. (03 Marks)



32. The line graph below shows how different pupils scored in beginning of term examinations in Mathematics.



(a) What was the score of Abdu?

(01 Mark)

(b) Express the score of Sarah as a ratio of Peter.

(02 Marks)

(c) Calculate the average score for all the pupils who sat the examination.

(03 Marks)



17. A football match started at 1125 Hrs and ended at 1310 Hrs. How long was the match?

18. Arrange 3, 4, 6 and 0 in ascending order.

19. Work out: $1\frac{2}{3} \times \frac{9}{10}$

20. Expand 2364 using exponents.

SECTION B: 60 MARKS

Attempt all questions in this section.

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

21. Use the shopping bill table below to answer the questions that follow.

Item	Quantity	Unit cost	Amount
Pair of shoes	4 pairs of shoes	Sh. 15,000 per pair	Sh. _____
Shirts	2 shirts	Sh. _____ per shirt	Sh. 10,000
Pair of trousers	_____ pair of trousers	Sh. 20,000 per pair	Sh. 40,000
Belts	4 belts	Sh. 5,000 per belt	Sh. _____
Total expenditure			Sh. _____

(a) Complete the above shopping bill table.

(05 Marks)



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