

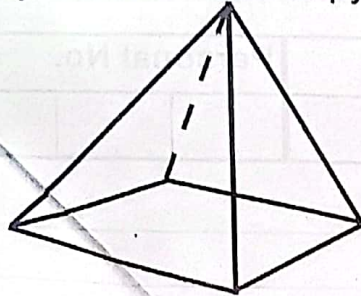
SECTION: 40 MARKS

Attempt all questions in this section.

Questions 1 to 20 carry two marks each.

1. Work out:
$$\begin{array}{r} 204 \\ - 93 \\ \hline \end{array}$$

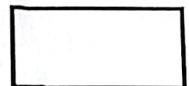
2. How many vertices has the pyramid below?



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.



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P.7 MATHEMATICS MOCK II EXAMINATIONS - 2024

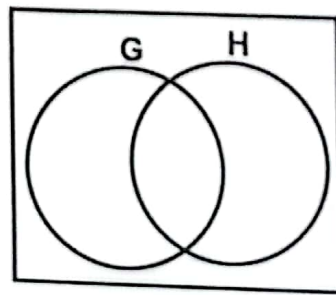
IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SEMAS, TR'S GUIDES AND PUPIL'S COMPANIONS.

1

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

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 $(G-H)$



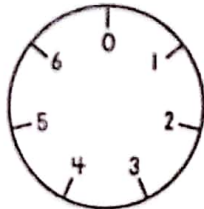
9. A bag contains 6 ripe mangoes and 7 raw ones. If a mango is picked from the bag at random. Find the probability of picking a ripe mango.

10. The time is 25 minutes to midnight. Express this time on the 24 hour clock system.



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

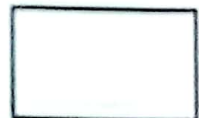
12. Work out: $2 - 6$ (finite 7) using a clock dial.



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

14. Round off 48.97 to the nearest tenths.

15. Subtract $2b - a$ from $5b - a$.



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

17. A 35-metre wire was folded to form a semi-circular shape shown below. Find the length of the wire that formed the diameter of the semi-circle.

$\left[\text{use } \pi = \frac{22}{7} \right]$



18. **Work out:** $(16 \times 41) - (21 \times 16)$

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.



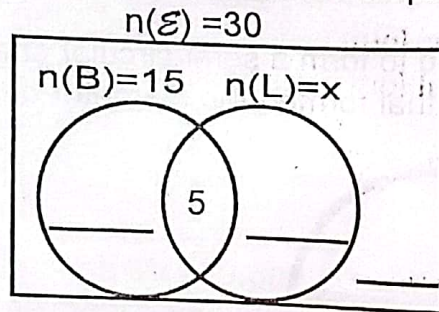
SECTION B: 60 MARKS

Attempt all questions in this section.

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.



(b) Find the number of farmers who keep **only one type** of chicken.

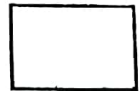
(02 marks)

22. (a) Express 200 as a product of its prime factors.

(02 marks)

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

(02 marks)



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

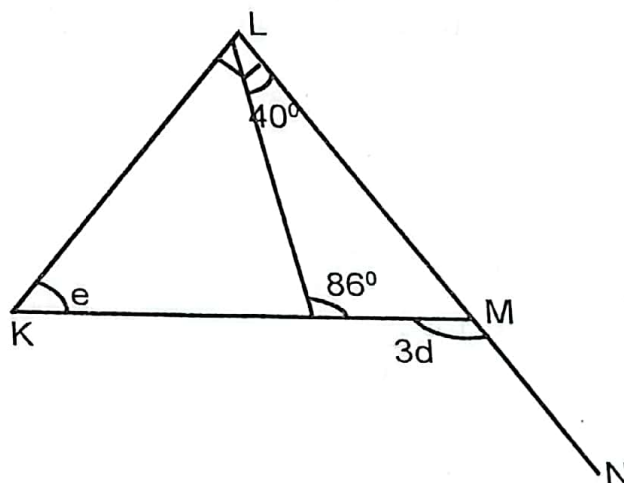
a) Find the total number of people in Kasaato Village.

(03 marks)



- b) By what percentage is the number of unemployed people greater than the number of employed people? (02 marks)

24. In the figure below, angle $KLM = 90^\circ$. Study and use it to answer the questions that follow.



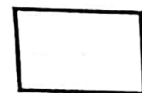
Find the size of;
(a) angle d

(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)



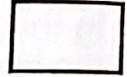
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26. In a class, the average age of 30 girls is 8 years and the average age of 20 boys is 13 years. Find the average age of all the children in that class. (05 marks)



27. (a) Work out: $\frac{5.1 \times 3.2}{0.03}$

(03 marks)

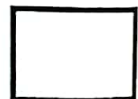
(b) Simplify: $\frac{5}{6} - \frac{1}{2} \div \frac{3}{4}$

(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		sh. 4,300,000

Use the information to complete the blank spaces above. (05 marks)



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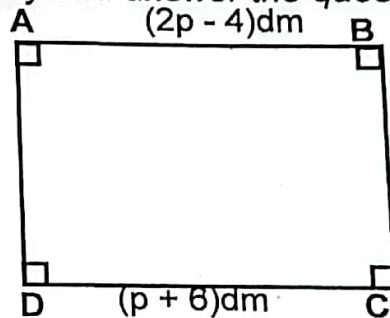
7

29. A car travelling at 75 kilometres per hour took 2 hours to cover part of its journey. The remaining journey was covered in 3 hours at 60 kilometres per hour.

Find the **average** speed of the car for the whole journey. (05 marks)

30. The area of the rectangle **ABCD** below is 240dm^2 .

Study the rectangle carefully and answer the questions that follow.

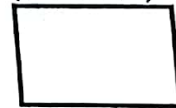


- (a) Find the value of p .

(02 marks)

- (b) Calculate the total **distance** round the rectangle.

(03 marks)



- 31.(a) With the help of a ruler, sharp pencil and a pair of compasses only, construct a triangle **ABC** in which line **AC** = line **BC**, line **AB** = 8 cm and angle **ABC** = 45° .

(05 marks)



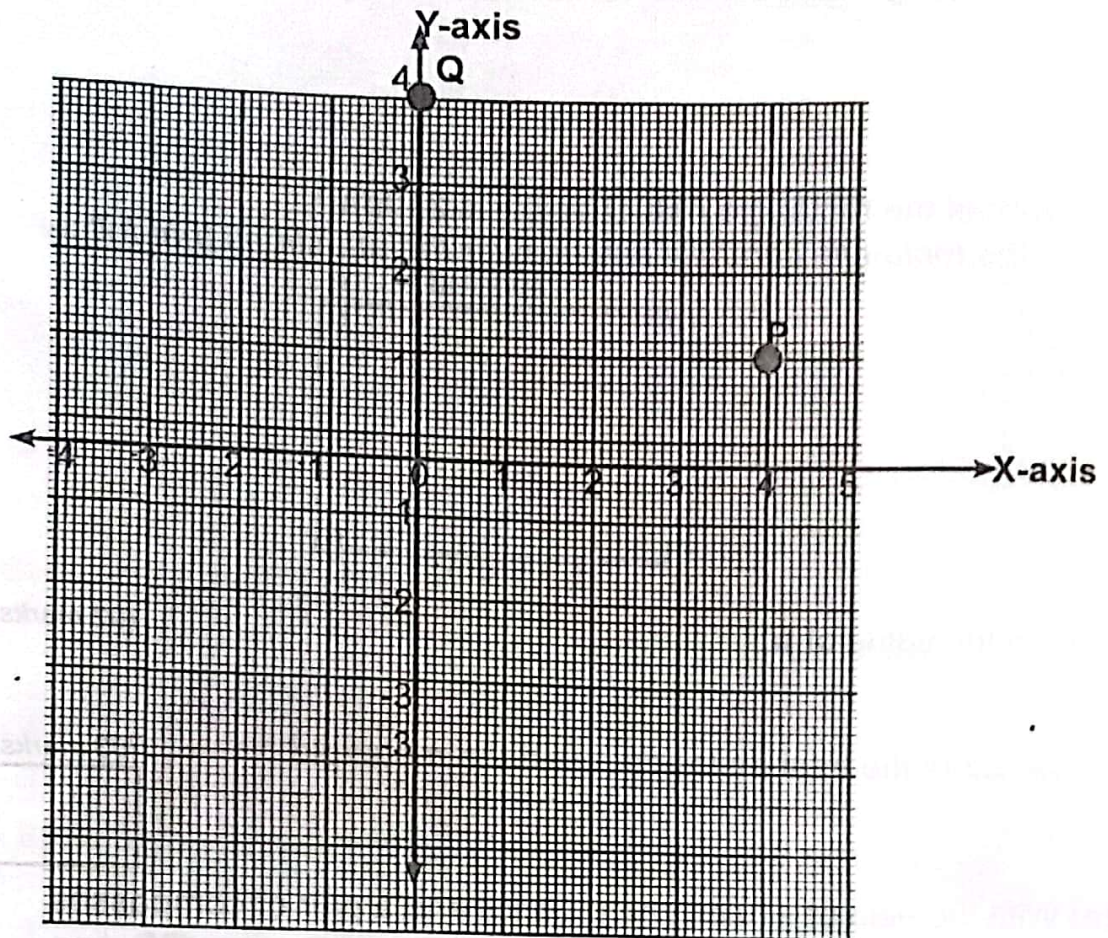
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- (b) Measure angle $BCA =$ _____ (01 mark)
32. Use the co-ordinate graph below to answer the questions that follow.



- (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)

