

**INTENSIVE CARE SCHOOLS WANDI-TEREGO**  
**END OF TERM I EXAMINATIONS 2024**  
**PRIMARY SEVEN**  
**MATHEMATICS**

*Time allowed: 2 hours 30 minutes*

Index No.

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Candidate's Name: \_\_\_\_\_

Candidate's Signature: \_\_\_\_\_

**Read the following instructions carefully:**

1. The paper has **two** sections: **A** and **B**
2. Section **A** has 20 short questions (40 marks)
3. Section **B** has 12 questions (60 marks)
4. Answer **ALL** questions. All answers to both Sections A and B must be written in the spaces provided.
5. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
6. Unnecessary alteration of work may 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.

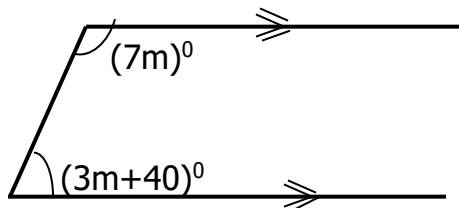
FOR EXAMINER'S USE ONLY		
Qn. No	MARK	SIGN
1 – 10		
11 – 20		
21 – 30		
31 – 32		
TOTAL		

*Turn over*

**SECTION A: (40 MARKS)**  
**Questions 1 to 20 carry two marks each.**

1. Work out :  $28 \div 7$
  
  
  
  
  
  
  
  
  
  
2. Write "One hundred five thousand fifteen" in numerals.
  
  
  
  
  
  
  
  
  
  
3. Given that  $q=3$  and  $t=2$ .  
Find the value of  $\frac{t^2 - qt}{t - q}$
  
  
  
  
  
  
  
  
  
  
4. Express 300 grammes as a percentage of 2kg.

5. Find the value of  $m$  in the diagram below.

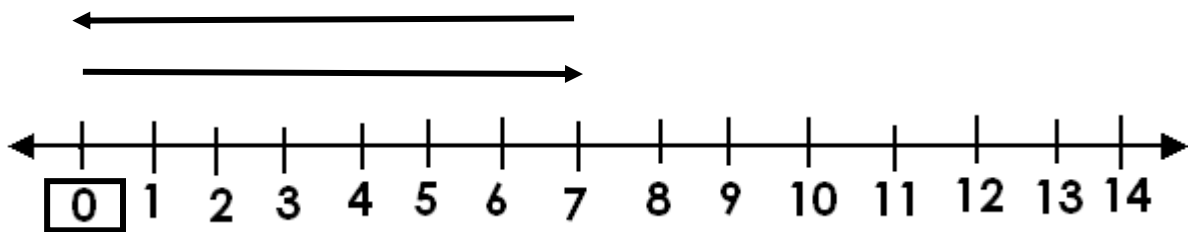


6. A debate started at 9:35 am and took  $2\frac{5}{12}$  hours, at what time did it end?

7. Find the next number in the sequence: 11, 15, 21, 29, 38, \_\_\_\_\_

8. Simplify:  $10^5 \div 10^3$

9. Write the mathematical statement for the numberline below.

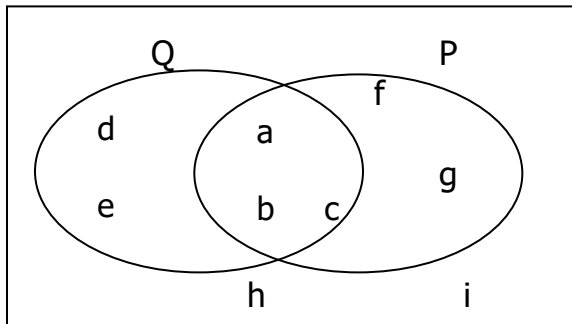


10. A ten percent deduction is made on a price of a dress that was sold at sh.72,000. Calculate the cost price of the dress.

11. The circumference of a circular kraal is 132m. Find its radius. ( Take  $\pi = 3\frac{1}{7}$  )

12. Divide: 6363 by 7

13. In the diagram below, find  $n(Q \cap P)$  complement.



14. In a class there are 35 boys and 25 girls. Find the ratio of girls to the whole class.

15. Using a pair of compasses, a ruler and a pencil only construct an angle of  $105^\circ$

16. Work out the median of the given numbers below. 3, 5, 7, 4, 9 and 8.
17. Round off 39.98 to the nearest tenths.
18. Simplify:  $\frac{8}{13} \div \frac{4}{39}$
19. Write CMXLIX in words.
20. Find Highest Common Factor of 28 and 49.

**SECTION B: (60 Marks)**

**(Marks for each question are indicated in brackets)**

21. The table below shows the number of pupils and how they scored in a weekly mathematics test.

No. of pupils	3	1	4	2
Marks scored	70	90	60	50

- (a) How many more pupils who scored 70 and 60 than those who scored 90 and 50? **(2 marks)**

- (b) Find the total number of pupils who scored above average score. **(3 marks)**

22. a) Simplify:  $\frac{4.8}{3.6} \times \frac{2.7}{2.4}$  **(3 marks)**

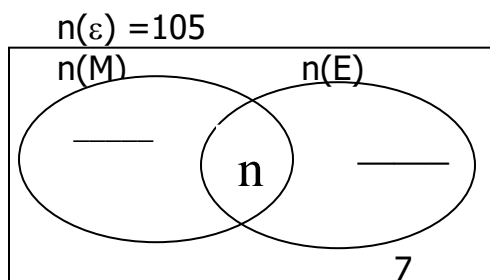
- b) When, 240 is decreased by X% becomes 192. Find the value of X. **(2 marks)**

23. a) Find the value of K:  $\frac{K - 11}{3} = \frac{K - 7}{5}$  **(3 marks)**

(b) Find the solution set for the inequality. **(3 marks)**  
 $3(2-r) \leq 15$

24. In a school there are 105 teachers, 50 teachers teach English (E),  $(35+n)$  teach mathematics (M) only while 7 teachers do not teach any of the two subjects.

(a) Use the information given above to complete the venn diagram below. **(2 marks)**



(b) Find the total number of teachers who do not teach English at all. **(3 marks)**

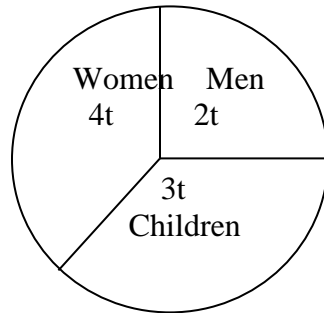
25. The table below shows the rates at which different currencies were sold and bought in a bank.

currency	Selling in Ug.Sh	Buying in Ug.sh
1 Euro ( )	4,020	4,000
1 U.S dolla (\$)	3,650	3,600
I.K sh	5.0	4.0

- (a) (a) How many Euros did Mary get for Ug.sh. 603,000? **(2mark)**
- (b) If Amos came from Kenya with 109500 Kenya shillings. How many US dollars did he get from the bank? **(3 mark)**
26. A motorist riding from village A reached village B at 12:30 pm. The journey took 1 hr and 40 minutes.
- (a) At what time did the motorist leave village A? **(3 marks)**
- (b) If village B is 60km from village A. Find the average speed of the motorist in metres per second. **( 2 mark)**



27 The pie chart below shows the population of Mende L.C.I village.



(a) Find the value of  $t$ .

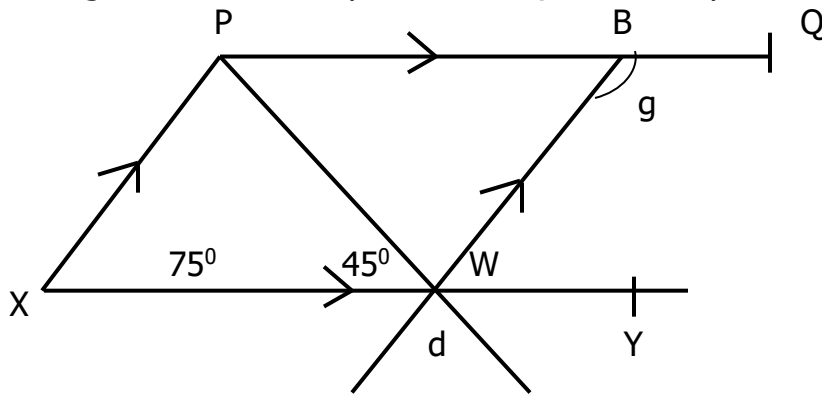
**(2 marks)**

(b) If there are 7200 children in that village. Calculate the total population of the village.

**(3 marks)**

28. The farmer collected 50 grosses of mangoes. If the mangoes were packed in boxes, how many boxes were packed, if each box contains 30 mangoes? **(4 marks)**

29. In the diagram below XY is parallel to PQ, line PX is parallel to BW.



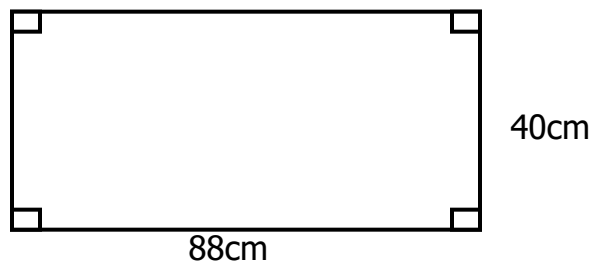
(a) Find the value of  $g$  in the diagram above in degrees.

**(2 marks)**

(b) Find the size of the angle marked  $d$ .

**(2 marks)**

30. Below is a curved face of a cylindrical tank whose height is 40cm.



(a) Find the radius of the cylinder. (Use  $\pi = \frac{22}{7}$ )

**(2 marks)**

(b) Work out the volume of the cylinder. ( Take  $\pi = \frac{22}{7}$ )

**(2 marks)**

31. In a class,  $\frac{1}{3}$  of the pupils like meat,  $\frac{2}{5}$  of the remainder like fish. The rest of the pupils like chicken, if those who like chicken are 42. Find the number of pupils in the class.

**(5 marks)**

32. Using a pair of compasses, a ruler and a pencil only, construct a triangle ABC in which  $BC = 7\text{cm}$ ,  $\angle ABC = 45^\circ$  and  $\angle BCA = 30^\circ$ , drop a perpendicular from A to meet line BC at R. **(5 marks)**

- (a) Measure the length of line AR

**(1 mark)**

***EDUCATION IS THE BEST GIFT TO A CHILD***