

PALLISA DISTRICT ACADEMIC BOARD

PRIMARY SEVEN MOCK EXAMINATIONS 2024

MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

Emis No.	Personal No.
INDEX NO.	

CANDIDATE'S NAME: _____

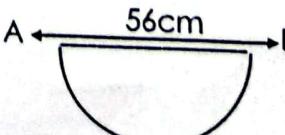
SCHOOL: _____

Read the following instructions carefully

1. The paper is made up of two Sections A and B.
2. Section A has 20 short answer questions (40marks).
3. Section B has 12 questions (60marks).
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 or fountain pen-ink. Diagrams should be drawn in pencil.
6. Unnecessary crossing of answers will lead to loss of marks.
7. Any handwriting, that cannot easily be read may lead to loss of marks.
8. Do not fill any thing in the boxes.
"For Examiners use only"

FOR EXAMINERS' USE ONLY		
Qn No.	MARKS	EXR'S No.
1-5		
6-10		
11-15		
16-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

SECTION A (40 MARKS)

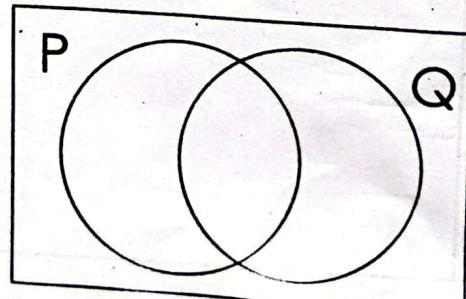
1.	Work out 33×3 .	5.	Work out: $6 - 8$
2.	Write 12,055 in words	6.	Express 72 Km/h as m/s
3.	Simplify $5n - 2(3 - n)$	7.	Work out: $1\frac{2}{3} - \frac{5}{9}$
4.	Given that: $P = \{ \text{all prime numbers less than } 12 \}$ Find $n(P)$	8.	Find the length of the arc AB in the diagram below. 

9. A parent withdrew Twenty thousand shillings notes numbered consecutively from AP 220390 to AP 220399. How much money did he withdraw?
10. A radio cassette has gross weight of 13.8kgs. Express the gross weight of the radio cassette in grammes
11. Using a ruler, a pencil and a pair of compass only, construct an angle of 75° in the space below.

12. If it started raining at 10:40am and stopped at 12:20pm. For how long did it rain?

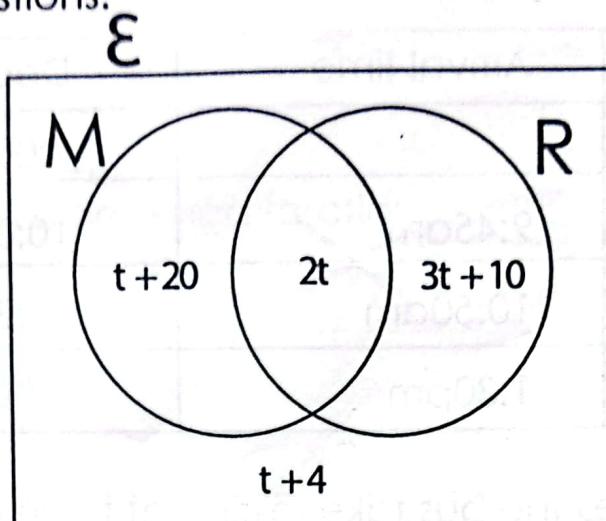
13. What number has been expanded to give;
 $(4 \times 10^2) + (2 \times 10^0) + (5 \times 10^{-1})$

14. A motorcyclist travels from Mbale to Pallisa, a distance of 60km in 40 minutes. Calculate the speed in kilometres per hour.	15. Solve $x - 3 = 6$ (finite 7)	16. Find the next two numbers in the sequence below. 1, 5, 11, 19, 28, _____, _____	17. Use distributive property to work out $(8.5 \times 12) + (8.5 \times 8)$	18. Solve: $3y - 6 = 18$	19. In a box, there are 3 red pens, 5 blue pens and 2 black pens. What is the probability of picking a black pen at random.	20. In the venn diagram below shade the complement of set $(P - Q)$
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SECTION B (60 MARKS)

21. The venn diagram below shows the number of farmers in Kinomu village who grow maize (M) and those who grow rice (R). Use it to answer questions.



- (a) If the number of farmers who grow maize only is the same as the number who grow rice only, Find the value of t . (2 marks)
- (b). How many farmers do not grow maize? (2marks)
- (c). Find the probability of selecting a farmer who grows maize. (2marks)

22. The time table below is for a bus travelling from town P to S. Use it to answer questions that follow. (2marks)

Town	Arrival time	Departure time
P		9:00am
Q	9:45am	10:00am
R	10:50am	11:30am
S	1:30pm	

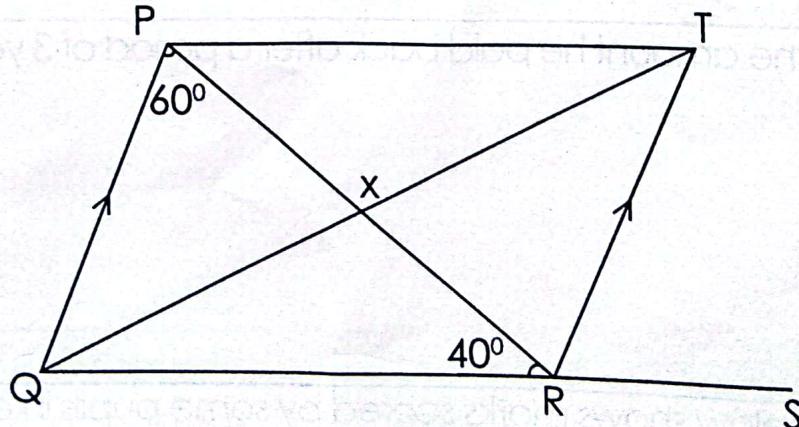
- (a) How long does the bus take resting at town Q? (2marks)
- (b) How long does the bus take travelling from town P to town S? (2marks)
- (c) If town S is 180Km away from town P, calculate the average speed of the bus for the whole journey? (2marks)

23.	<p>(a) Work out $\frac{7.2 \times 1.8}{4.8 - 2.4}$ (3marks)</p>										
(b)	<p>Express 0.3636----- as a simplified fraction. (3marks)</p>										
24.	<p>A businessman borrowed some money from Finance Trust Bank at an interest rate of 10% per annum of 3 years.</p> <p>(a) How much did he borrow if he paid an interest of sh. 45,000? (2marks)</p>										
(b)	<p>Calculate the amount he paid back after a period of 3 years. (2marks)</p>										
25	<p>The table below shows marks scored by some pupils in examinations. Use it to answer questions</p> <table border="1" data-bbox="244 1792 1282 2016"> <tbody> <tr> <td>Marks scored:</td><td>90</td><td>60</td><td>40</td><td>50</td></tr> <tr> <td>No. of pupils:</td><td>2</td><td>P</td><td>1</td><td>4</td></tr> </tbody> </table>	Marks scored:	90	60	40	50	No. of pupils:	2	P	1	4
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No. of pupils:	2	P	1	4							

(a) Given that the mean mark was 60. Find the value of P? (3 marks)

(b) how many pupils scored above 55 marks? (1 marks)

26. In the figure below Q R S is a straight line \overline{PQ} is parallel to \overline{RT} . Line \overline{QT} bisects angle PQR. Angle QPR = 60° and QRP = 40°



Find the size of angles:

(i) P Q R

(2 marks)

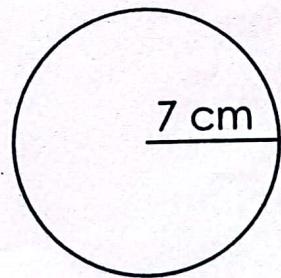
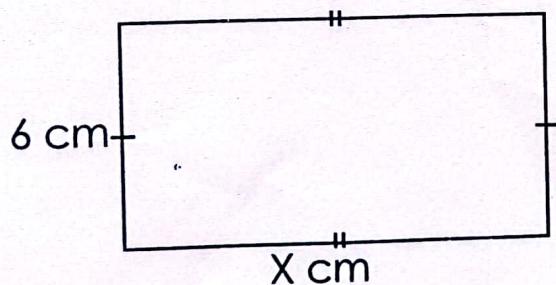
(ii) Q X R

(2 marks)

(iii) P R T

(2 marks)

27. ABCD is a rectangle measuring x cm by 6 cm. The perimeter of ABCD is equal to the circumference of a circle with radius 7 cm as shown below. (Take π as $\frac{22}{7}$)



Find the value of X .

(4 marks)

28. A pen costs twice as much as a pencil and a book costs sh. 600 more than a pencil. If the total cost of all the three items is 2400.

Find the cost of the pencil.

(4 marks)

29. (a) Add. $4 \ 3 \ 3$ _{five}
 + $2 \ 3 \ 4$ _{five} (2 marks)

(b) Find the value of X in

$$23_x = 120_{\text{Three}}$$

(2 marks)

- 30 The sum of three consecutive counting numbers is 72. If the middle number is a .
- (a) Find the value of a . (2 marks)
- (b) List the numbers. (2 marks)
- (c) What is the difference between the largest and the smallest number.
(2 marks)
31. (a) A school burser deposited shs 48,691 last week, he deposited 724,569 more this week.
How much money did he deposit altogether? (2 marks)

32

Using a ruler, a pencil and a pair of compasses only. Construct quadrilateral A B C D in which $AB = 8 \text{ cm}$, $BC = AD = 5 \text{ cm}$ and angle $\angle ABC = \angle DAC = 60^\circ$. (3 marks)

(b) Measure the length of line D C.

(1 mark)

END

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