



THE PRIME EXAMINATIONS 2024

P.7 END OF TERM I MATHEMATICS

Time allocated 2 hours 30 minutes



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READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This paper has **two** sections: A and B. Section A has 20 questions (40 Marks) and Section B has 12 questions. (60 Marks)
2. Answer **ALL** questions. All the working for both sections A and B must be shown in the spaces provided.
3. All working **must** be done using a **blue** or **black** ball point pen or ink. Any work done in pencil other than on graphs and diagrams will **not** be marked.
4. No **calculators** are allowed in the examination room.
5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss of marks**.

6. Do not fill anything in the table indicated

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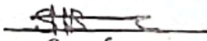
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QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

APPROVED


Consultant
Mathematics Department (PEC)

Turn Over

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Section A (40 Marks)

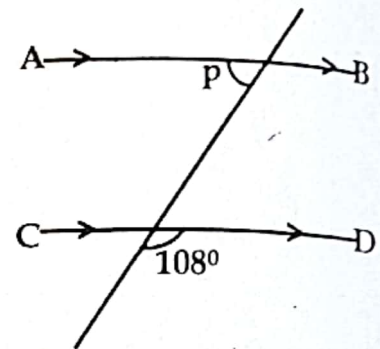
1	Work out: $645 - 234$	2	Write 606,660 in words.
3	Find the range of 5, 4, 1, 0, 2	4	Given that set $P = \{s, p, o, r, t\}$ and set $Q = \{p, o, e, t, s\}$, find $n(P \cap Q)$
5	Represent 4203 on the abacus below. <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">TH □</div> <div style="text-align: center;">H □</div> <div style="text-align: center;">T □</div> <div style="text-align: center;">O □</div> </div>	6	Change 450g to kilograms.
7	Find the number expanded to give $(6 \times 10^4) + (7 \times 10^1) + (8 \times 10^2)$.	8	Convert 108km/hr to m/s.
9.	Solve for the value of k: $2k - 3 = 21$	10	Find the next number in the sequence; 6, 7, 11, 20, 36, _____

11 Change 1011_{two} to base ten.	12 The cost of 2 mangoes is sh 2000 and the cost of 3 oranges is sh 1500. Find the total cost of 2 mangoes and 3 oranges altogether.
13 Using a protractor, measure the angle marked by letter p. <div data-bbox="279 672 630 985"> </div>	
14 Write 34000 in scientific notation.	15 Annet scored the following marks in three mathematics tests 65, 70 and K. find the value of K if her mean score was 71 marks.
16 Workout: $5^3 \times 5^4 \div 5^6$	17 Given that $a=3$, $b=2$, find the value of $5a-4b$.

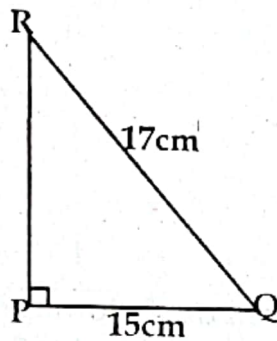
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18 Adong bought a bag at sh 60,000 and sold it making a profit of 10%. How much was her profit?

19 In the diagram AB is parallel to DC. Find p in degrees.



20 In the diagram below. Find the length of PR.



Section B (60 Marks)

21 A car covered a distance of 360km in 3 hours.

(a) Calculate the speed at which the car was travelling.

(02 mark)

(b) Work out: Hrs Mins

7	20
+ 4	50
<hr/>	
<hr/>	

(02 marks)

(c) Convert 63 days to hours.

(01 mark)

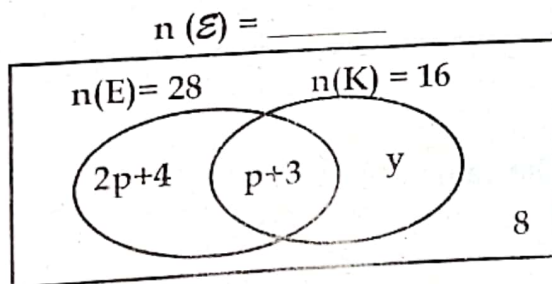
22. (a) Workout: $0.5 - 0.25 + 0.8$

(03 marks)

(b) Workout: $\frac{0.24 \times 1.5}{0.5 \times 1.2}$

(02 marks)

23 Study the Venn diagram below and answer the questions that follow.



(b) Find the value of p .

(02 marks)

(b) Find the value of y .

(02 marks)

(c) Find $n(\mathcal{E})$.

(01 marks)

24

In a class of 80 pupils, there are 40% more girls than boys.

(a) Find the percentage of girls in the class.

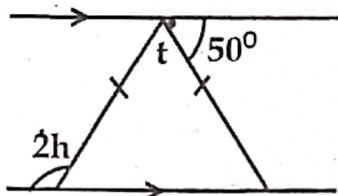
(03 marks)

(b) How many pupils are boys?

(02 marks)

25

In the diagram below.



(a) Find the value of t .

(03 marks)

(b) Find the value of h .

(02 marks)

26

A box contains 24 packets of Lato milk. If each packet has 500ml of milk.

(a) Work out the total capacity of the milk in the box in litres. (03 marks)

(b) If every two packets of Lato milk cost sh 3600, find the total cost of all the milk in the box. (02 marks)

27

(a) Using a pair of compasses, a ruler and a pencil only, construct an equilateral triangle in a circle of radius 4cm. (03 marks)

(b) Find its perimeter.

(02 marks)

28

The exchange rate of 1 US dollar is Ugsh 3900 and the exchange rate for KSh 1 is UgSh 26.

- (a) Thompson, a tourist from USA had US\$800 and exchanged them for Uganda shillings, find the amount he got. (03 marks)

- (b) Another tourist had US\$520 to exchange for Kenya shillings. Find the amount of money in Kenya shillings he got from the bank. (03 marks)

- 29 In a certain P.7 class, the number of girls is thrice the number of boys. How many more girls than boys are in the class if there are 120 pupils in the class? (05marks)

30

The sum of 3 consecutive counting numbers is 108.

(a) Find the numbers.

(02 marks)

(b) Find range of the numbers.

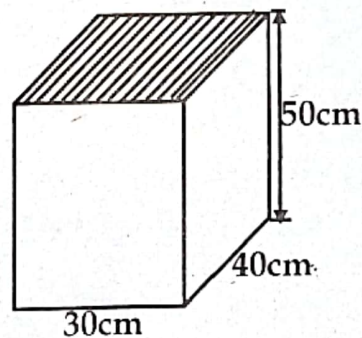
(02 marks)

31

Below is the rectangular tank.

(a) Find the capacity of the tank in.

(03 marks)

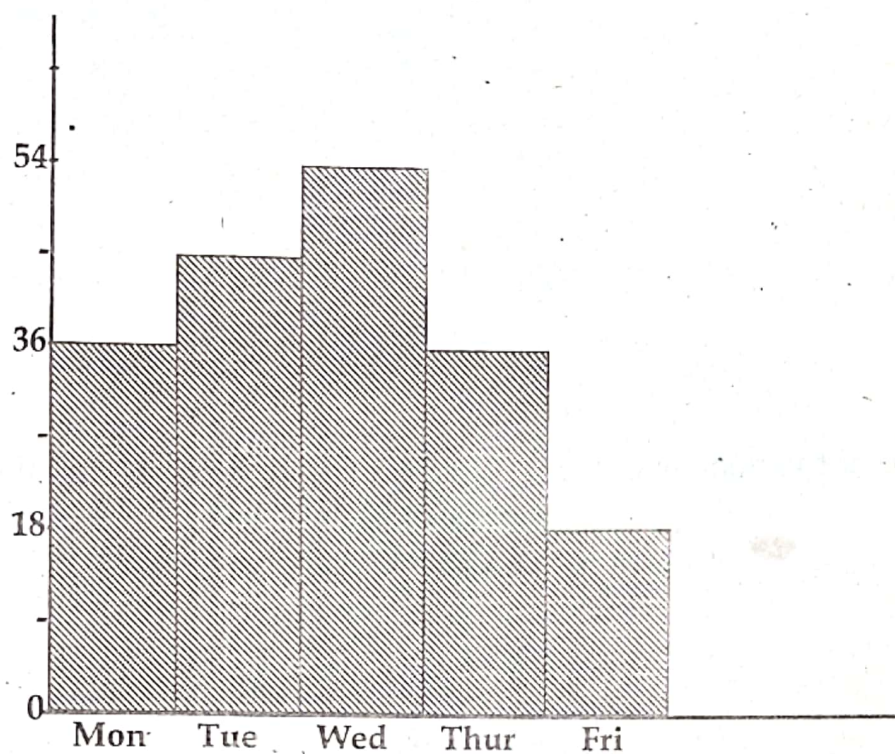


(b) Find the area of the shaded part of the tank.

(02 mark)

32

The graph below shows the mangoes sold by Nalongo in a certain week.



- (a) On which day Nalongo sell the least number of mangoes? (01 marks)
- (b) How many mangoes did Nalongo sell on Tuesday? (01 marks)
- (c) If Nalongo sold each mango at sh 700, how much money did Nalongo get on Wednesday and Thursday altogether? (03 marks)