THE PRIME EXAMINATIONS 2024

P.6 MID TERM II

MATHEMATICS

Time allocated 2 hours 30 minutes

Name:..

Signature:..

School:...

District Name:..

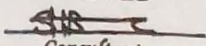## READ THE FOLLOWING INSTRUCTIONS CAREFULLY

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
   "**FOR EXAMINERS' USE ONLY**"

FOR EXAMINERS' USE ONLY

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)

PUBLISHERS OF:-

Turn Over

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Section A. (40 Marks)

Workout: $\begin{array}{r} 458 \\ -135 \\ \hline \end{array}$		2	Write 54 in Roman numerals.
Find the next number in the sequence. 3, 4, 8, 17, 33, _____		4	Express 8000g into kg.
Work out: $4 + 6$		6	Simplify: $3k + 5 + k + 2$
Work out: $\dfrac{1}{2} - \dfrac{1}{3}$		8	Work out the median of the following. 16, 14, 15, 16, 17, 20, 18
Express $\dfrac{3}{4}$ as a percentage.		10	Given that set T={P,O,T}. List down all the subsets contained in set T.
11	Work out the square root of $5\dfrac{4}{9}$.	12	Write 30546 in expanded form using powers of ten.

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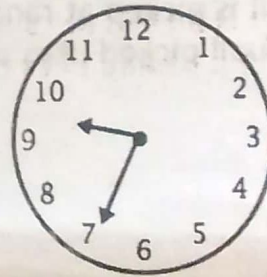|			
13	Without dividing show whether 546 is divisible by 3.	**14**	5 pineapples cost sh 12,000. Find the cost of 9 similar pineapples.
15	Solve: $3y + 4 = 13$	**16**	Given that set M = {4,7,9,10,11} and set N = {2,3,4,5,6}, find n(MUN)
17	**Show the lines of folding symmetry on the figure below.** 	**18**	**What morning time is shown on the clock face below?**
19	Workout: $16 - 24 \div 6$	**20**	Babirye bought a pair of shoes at sh 14,000 and sold it sh 12,500. Calculate the loss she made.

Section B. (60 Marks)

21. In a class of 48 pupils, 30 pupils like drawing (D), 25 pupils like writing (W), y pupils like both drawing and writing while 2 pupils like none of the two activities.

(a) Use the above information and complete the Venn diagram below. (02marks)

n(𝓔) = 48

n(W) = 25   n(D) = 30

____   y   ____

2
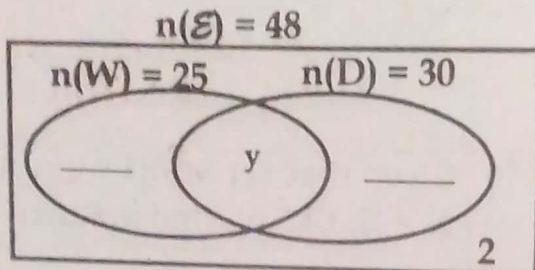
(b) How many pupils like both drawing and writing? (03 marks)

(c) If a pupil is picked at random to give a vote of thanks, find the probability that a pupil picked likes one type of activity only. (01 mark)

22. (a) Write "Ninety nine thousand forty six" in figures. (02 marks)

(b) Find the product of the value of 6 and the place value of 4 in 76542. (03 marks)

23. A trader bought 3 boxes of oranges each containing 45 oranges and 4 boxes of mangoes each containing 20 mangoes.
(a) Find the total number of fruits the trader bought. (03 marks)

(b) If he bought each orange at sh 200 and each mango at sh 300. Find the total amount of money the trader spent on buying all the fruits. *(02 marks)*

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24 The figure below is a rectangle ABCD.
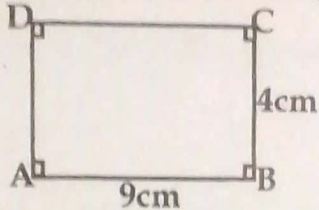
(a) Find the area of the figure above. *(02 marks)*

(b) Find the perimeter of the figure above. *(02 marks)*

(c) How many right angles has the figure above? *(01 mark)*

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25 A, B and C shared sh 240,000 in the ratio of 2:3:5 respectively.
(a) Find the amount of money each person got. *(04 marks)*

(b) How much more money did C get than A? *(01 mark)*

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PTO

26. Nalubega scored the following marks in series of mathematics tests 50, 30, 30, 70, 30, 80 and 60.

(a) Find the mode. *(01 mark)*

(b) Work out the range. *(01 mark)*

(c) Calculate the mean score of the marks. *(03 marks)*

27. (a) Work out: $\frac{5}{6} - \frac{1}{2} + \frac{1}{3}$ *(02 marks)*

(b) Simplify: $\frac{0.36 \times 0.48}{0.012}$ *(03 marks)*

28. A motorist left home for town moving at a speed of 80km/h for 2 hours.

(a) Calculate the distance between home and town. *(02 marks)*

(b) Workout:

Hrs	Mins
5	30
+ 2	40

(02 marks)

29 (a) Workout $^{+}5 + ^{-}2$. (02 marks)

(b) What integer is 6 steps to the left of $^{+}2$? (02 marks)

(c) What is the addition inverse of $^{-}5$? (01 mark)

30 Micdad went to the market and bought the following items.
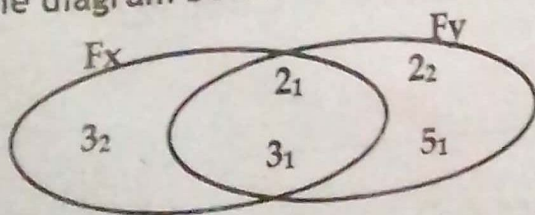
2kg of sugar at sh 4400 per kg.
$1\frac{1}{2}$ litres of milk at sh 2000 per litre.
3 bars of soap at sh 16,500.

(a) Work out his total expenditure. (03 marks)

(b) If he remained with sh 1700, find the amount he went with to the market. (02 marks)

31 Study the diagram below and answer questions that that follow.

(a) Find the value of **x**.   *(02 marks)*

(b) Find the value of **y**.   *(02 marks)*

(c) Find the L.C.M of **x** and **y**.   *(02 marks)*

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32 The graph below shows the marks scored by Hassan in Midterm Exams.
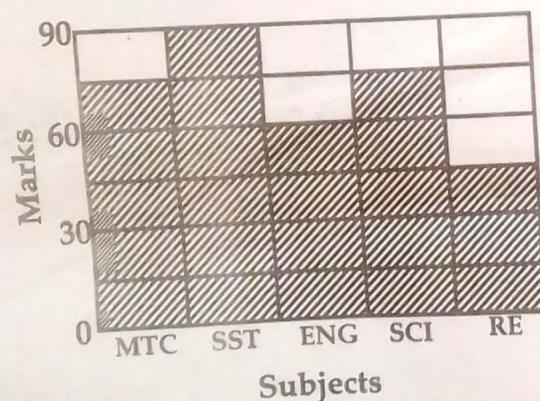
(a) In which subject did Hassan score the highest mark?   *(01 mark)*

(b) Find the total marks scored by Hassan in the five subjects.   *(02 marks)*

(c) How many more marks did Hassan score in MTC than RE?   *(01 mark)*