



THE PRIME EXAMINATIONS 2024

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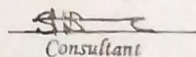
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QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

APPROVED

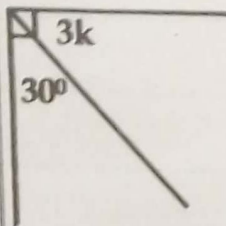
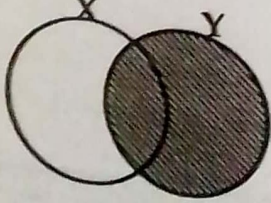

Consultant

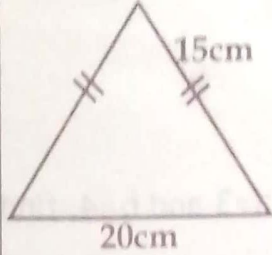
Mathematics Department (PEC)

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Turn Over

Section A (40 Marks)

1	Work out: $\begin{array}{r} 123 \\ +321 \\ \hline \end{array}$	2	Write 13 using tallies.
3	Work out: $\frac{5}{9} - \frac{3}{9}$	4	Express $4\frac{1}{2}$ kg as grammes.
5	Find the next number in the sequence: 2, 4, 8, 16, 32, _____	6	Find the value of k. 
7	Find the greatest common factor of 12 and 16.	8	Round off 6745 to the nearest tens.
9	Write 104 in Roman numerals.	10	If 3 mangoes cost sh 1800. Find the cost of 9 similar mangoes.
11	In a P.6 class, there are 36 desks, if 4 pupils sit on each desk, find the total number of pupils in the class.	12	Describe the shaded part in the Venn diagram below. 

13	Given that $a=5$ and $b=4$, find the value of $2b-a$.	14	Calculate the perimeter of figure below. 
15	Namanya was facing East and turned clockwise through an angle of 180° . In what new direction did he face?	16	Workout the average of 30, 40, 50.
17	A meeting started at 8:30am and ended at 10:00am. How long did the meeting last?	18	A trader bought a bag at sh 60,000 and sold it making a profit of sh 3500. Calculate the selling price.
19	Convert 4.5 litres to ml.	20	Arrange the following in ascending order. -1, +2, 0, -3, +1, +4

Section B (60 Marks)

21 (a) Simplify: $9g + 4k - 5g - 2k$. (02 marks)

(02 marks)

(b) Solve: $2y + 4 = 12$

(01 mark)

(c) Given that $a=3$ and $b=4$, find the value of ab .

(02 marks)

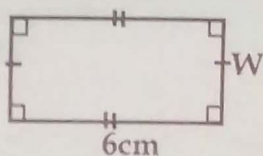
22 (a) Workout: $+6 - 2$

(b) Use $>$, $<$ or $=$ to complete the statement.

(02 marks)

-3 _____ 0

23 The area of the rectangle below is 24cm^2 .



(a) Work out the value of W .

(02 marks)

(b) Work out its perimeter.

(02 marks)

(c) How many lines of folding symmetry does the figure above have? (01 mark)

24

Amuriat bought the following items from a shop.

- 2kg of rice at sh 4000 per kg.
- 3kg of posho at sh 9000.
- 2kg of sugar at sh 5000 per kg

(a) Calculate his total expenditure.

(03 marks)

(b) How much would he pay for 5kg of posho?

(02 marks)

25

(a) A taxi left Mpigi for Masaka via Ssembabule at 7:30am and reached at 11:00am moving at a speed of 70km/h.

(i) How long did the taxi take?

(02 marks)

(ii) What distance did the taxi cover?

(02 marks)

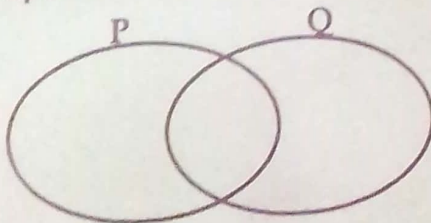
(b) Convert 7 years to months.

(01 mark)

26

Given that set $P = \{2, 3, 5, 7, 11, 13\}$ and set $Q = \{1, 3, 5, 7, 9\}$

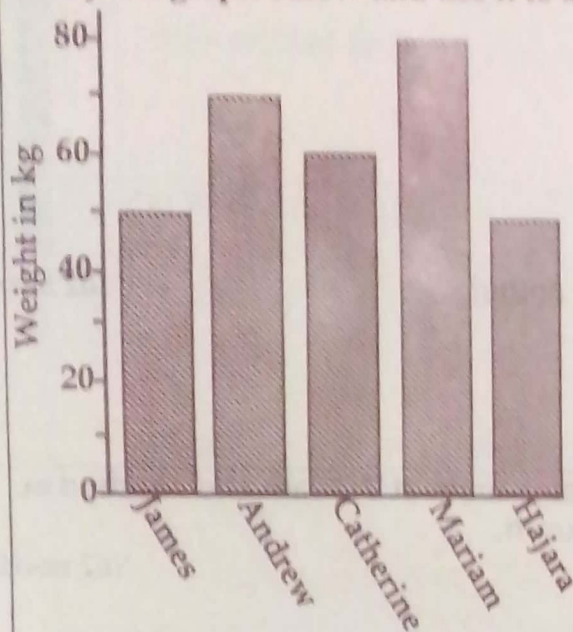
(a) Represent the above information on the Venn diagram below. (03 marks)



(b) Find $n(\text{PUQ})$

(02 marks)

27 Study the graph below and use it to answer the questions below.



(a) Which child weighs 70kg?

(01 mark)

(b) Which pupils weigh the same?

(02 marks)

(c) Find the average weight of all the pupils.

(02 marks)

28 In a class of 120 pupils, $\frac{1}{3}$ of the pupils are boarders and the rest are day scholars.

(a) What fraction of the pupils are day scholars?

(02 marks)

(b) How many day scholars are in the class?

(02 marks)

(c) How many more day scholars than boarders are in the class?

(01 mark)

29

(a) Work out: $3.65 + 11.8 - 9.47$

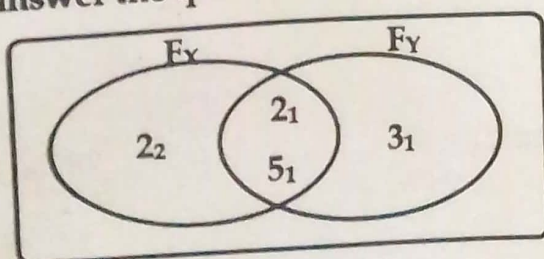
(03 marks)

(b) Convert 0.25 to a fraction in its lowest form.

(02 marks)

30

The Venn diagram below shows the prime factors of X and Y. Study it and answer the questions below.



(a) Find the value of;

(i) X

(ii) Y

(01 mark each)

(b) Work out the GCF of F_x and F_y .

(02 marks)

(c) Calculate the LCM of F_x and F_y .

(02 marks)

31 (a) Change 23_{five} to base ten.

(02 marks)

(b) Work out; 100_{five}

$$\begin{array}{r} 100_{\text{five}} \\ - 44_{\text{five}} \\ \hline \end{array}$$

(02 marks)

(c) Change 23_{ten} to base five.

(01 mark)

32 (a) Write 8943 in expanded form using values.

(02 marks)

(b) Round off 4378 to the nearest hundreds.

(02 marks)

(c) Write XLIX in Hindu Arabic numerals.

(01 mark)

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