THE PRIME EXAMINATIONS 2024

P.6 END OF TERM II

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 "**FOR EXAMINERS' USE ONLY**"

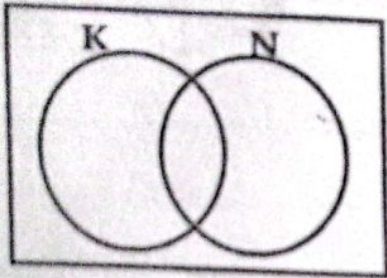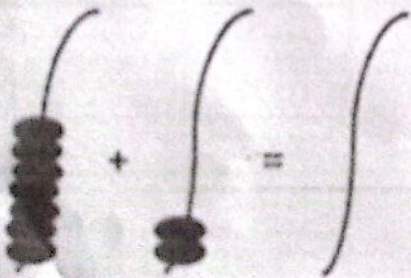| QUESTION NUMBER	MARKS ATTAINED	INITIALS
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

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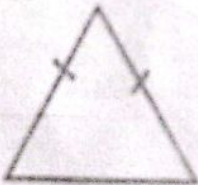
Mathematics Department (PEC)

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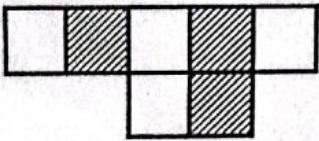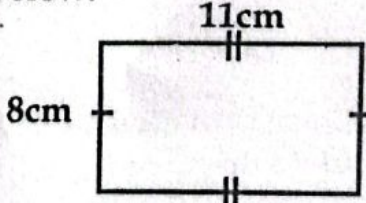
Turn Over

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Section A (40 Marks)

1	Add: 604 + 73	**2**	Write "Two thousand six hundred forty four" in figures.
3	Shade KUN on the diagram below.	**4**	Simplify: 6c + 7m – 4c – 4m
5	Given that set P and set Q are equal sets, write the elements of set P if set set Q = { s, t, o, l, e }	**6**	Convert XLVI in hindu-arabic numerals.
7	Work out:	**8**	How many lines of folding symmetry does the figure below have?
9	Given that ⊠ = 6 boxes, draw pictos to represent 18 boxes.	**10**	Express 600 grammes as kilogrammes.

11	Round off 14763 to the nearest thousands.	12	Find the Greatest Common Factor of 9 and 15.
13	Work out: $3\ 4\ 2_{five} + 1\ 0\ 3_{five}$	14	Find the square of 0.6.
15	A P.6 trial test started at 8:10am and lasted for 2 and half hours. At what time did it end?	16	Increase sh 1800 in the ratio of 3:2.
17	Write the shaded fraction below.	18	Calculate the area of the figure below.
19	Given that the value of 6 in a number is 6000. Find its place value.	20	The probability that Uncle Ben will go to town on Friday is $\frac{2}{7}$. What is the probability that Uncle Ben will not go to town on Friday?

Section B (60 Marks)

21 In a class of 56 pupils, 28 pupils like Mathematics (M), 30 like English (E) and y pupils like both English and Mathematics while 3 like none of the subjects.

(a) Complete the Venn diagram below. *(03 marks)*

n(ε)=56

n(M)=28   n(E)=30

y
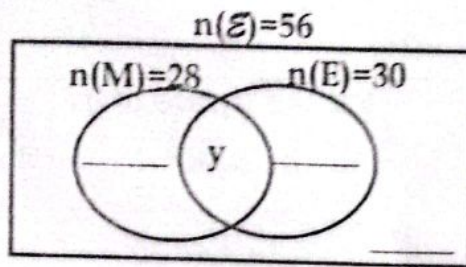
(b) Find the value of y. *(03 marks)*

22 (a) Convert 180 minutes to hours. *(02 marks)*

(b) A motorist covered a distance of 280km in 7 hours.
Calculate the speed at which the motorist was moving in km/h. *(02 marks)*

23 Given the numeral 6974;
(a) Write the above numeral in expanded form using exponents. *(02 marks)*

(b) Write the above numeral in words. (02 marks)

24 (a) A father gave some money to 6 of his children. If each child got sh.10650, how much money did the father give out? (02 marks)

(b) Ojok harvested **98,643 kg** of maize and he decided to sell off **59,412 kg** to help him pay his workers. How many kilogrammes did he remain with?

(02 marks)

25 The magic table below has the same total when added vertically, horizontally and diagonally.

2	a	6
9	5	b
d	c	8

(a) Find the magic sum. (02 marks)

(b) Find the value of; (01 mark each)
   (i) a
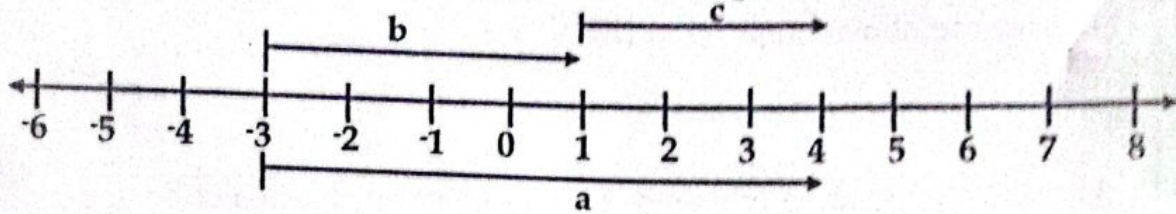   (ii) b

   (iii) c
                              (iv) d

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26 Study the number line below and answer the questions that follow.

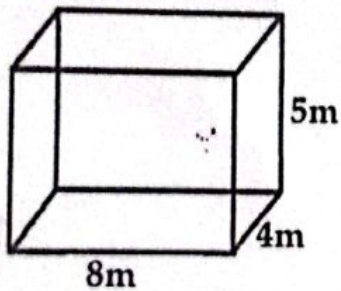(a) Write the integers represented by the arrows;   (01 mark each)
(i) a

(ii) b

(iii) c

(b) Write the mathematical statement for the above number line.   (02 marks)

27 Study the figure below and answer questions that follow.

5m

4m

8m

(a) Find the number of;   (01 mark each)
(i) faces   (ii) edges

(iii) vertices

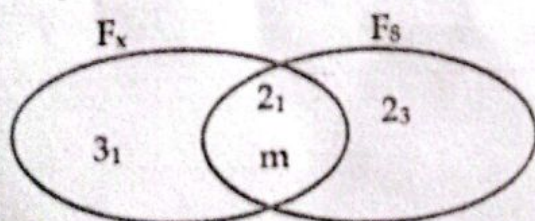(b) Work out the volume of the above figure.   (02 marks)

28 Using a ruler, a pencil and a pair of compasses only, construct a hexagon in a circle of radius 3.5cm. *(04 marks)*

29 Work out the following.

(a) $\frac{2}{3} + \frac{1}{4}$ *(02 marks)*

(b) $\frac{3}{5} - \frac{1}{6}$ *(03 marks)*

30 Study the Venn diagram below and answer questions about it.

F_x F_s

2_1 2_3

3_1 m

(a) Find the value of;   *(02 marks each)*

(i) m

(ii) x

(b) Find the GCF of x and 8. (02 marks)

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31 Ali scored the following marks in end of term exams.

SST	MTC	SCI	RE	ENG
92	95	80	89	92

(a) Workout the average score. (03 marks)

(b) Find his modal score. (01 mark)

(c) Find the range of the scores. (02 marks)

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32 Jane deposited sh. 600,000 in a bank which offers on interest rate of 4%per year for 9 months.

(a) Calculate the interest she got after 9 months. (03 marks)

(b) Workout the amount of money she had in her account after 9 months. (02 marks)

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