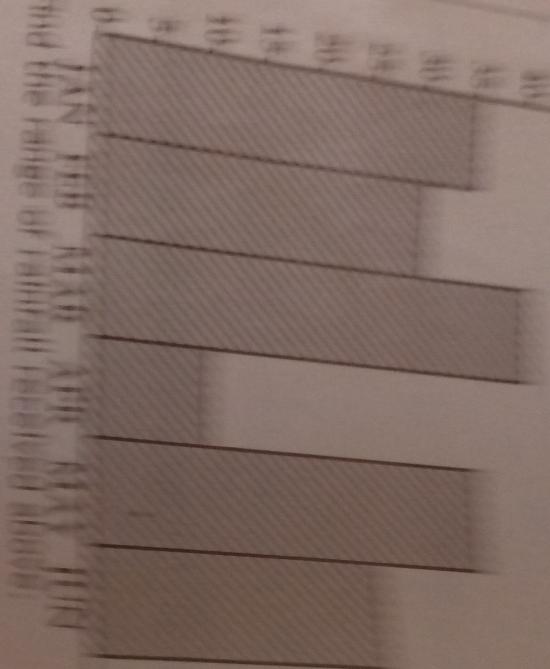


Q10) During the financial year 2011-12, total sales of a company increased by 10%.

- (a) Find the sum of the AM and GM values.

(b) The bar chart given below shows the amount of rainfall received in the month of the year.



- (c) Work out the total amount of rainfall received in the first four months of the year.

(d) Find the range of rainfall received above.

(02 marks)

ING GAMES.

(02 marks)

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28

Ben and William weigh 37kg and 37kg respectively.

(a) Express the sum of their weight as a Roman numeral.

(03 marks)

(03 marks)

(b) Represent the difference in their weight in tally form.

(02 marks)

29

(a) Prime factorise 30 and 36 and represent their prime factors on the Venn diagram below.

(04 marks)

(02 marks)

(b) Find $F_{36} \cup F_{30}$.

(02 marks)

(02 marks)

30 (a) Joan tossed a dice in air, find the probability that an even number appears on top.

(02 marks)

4-11 MAI
10 92751 92751 (E)

(2 marks)

(b) Given that $E = \{8, 9, 3, 6, 7, 4\}$, what is the probability of choosing a composite number from E?

(02 marks)

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(b) Find the value of x . (02 marks)

$$\text{A right-angled triangle with a horizontal base of length } 30 \text{ and a vertical height of length } 24. \text{ The hypotenuse is labeled } x.$$

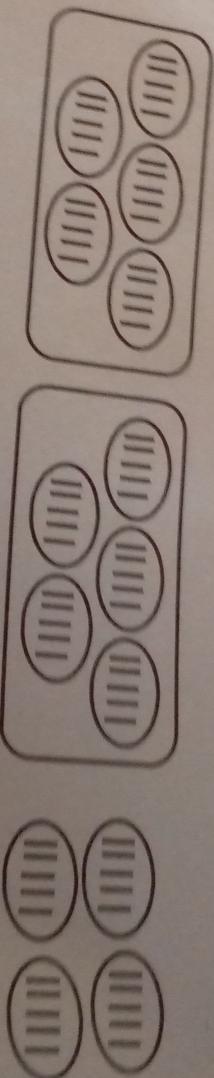
26

In a class of 54 pupils $\frac{2}{9}$ are boys and the rest are girls.

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

(b) How many more girls than boys are in the class? (03 marks)

27 (a) Write the base five numeral represented below. (02 marks)



(02 marks)

(b) Express 300_{five} as a base ten numeral. (02 marks)

(c) Find the sum of the value of 1 and the place value of 4 in 2143_{five} . (02 marks)

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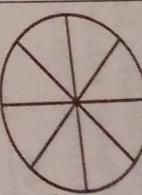
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- 9 Work out: $-8 - 3$
- 10 Express 24 as a product of its prime factors.

11 Solve for W: $\pi W - 3 = 25$

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12 Shade $\frac{3}{4}$ of the figure below.

$$\begin{array}{r} \text{Add: kg} \\ 54 \\ + 35 \\ \hline \end{array}$$

13 Add: kg g

$$\begin{array}{r} 640 \\ + 260 \\ \hline \end{array}$$

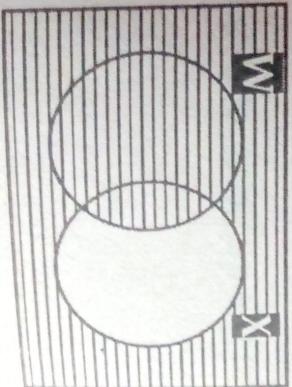
14 Find the supplement of 132° .

15 Express $(5 \times 10^3) + (1 \times 10^1) + (9 \times 10^0)$ as a single number.

16 A parent gave his first son $\frac{3}{8}$ of his land. Find the fraction of land a parent remained with.

17 Given that $P = \{\text{all factors of } 12\}$, find $n(P)$.

18 Describe the shaded part on the Venn diagram below.



19

Round off 548 to the nearest tens.

Given the cost of a table as sh.40,000. How many can one buy with sh.240,000?

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21

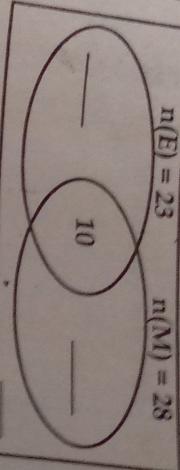
Section B (60 Marks)

In a class of 48 pupils, 28 like Mathematics (M), 23 like English(E), 10 like both Mathematics and English while K pupils like none of the two subjects.

(a) Use the above information to complete the Venn diagram below. (03 marks)

$$n(E) = 23$$

$$n(M) = 28$$



(b) How many pupils don't like English? (02 marks)

9b

22

Given the numeral 40,876.

(a) Find the difference between the place value of 4 and the value of 8. (03 marks)

The
sh.7500

(b) Expand the numeral above using values.

(02 marks)

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- WARNING: Not to be reproduced electronically!!!**
- 23 (a) Find the least number of books that can be shared by 15 pupils or 12 pupils and 7 books remain.
(02 marks)
- (b) Work out the GCF of 20 and 28.
(02 marks)

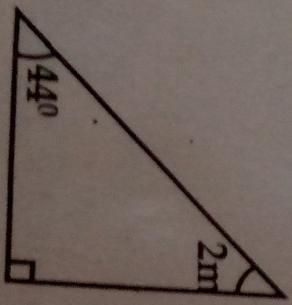
ake both
(02 marks)

- 24 Given the length and width of a rectangular room as 14m and 12m respectively.
(02 marks)

- (a) Workout the area of the figure.

- (b) Calculate the distance one covers after moving around the above room thrice.
(03 marks)

- 25 (a) Find the value of m.
(02 marks)





PRIME EXAMINATIONS 2024
P.6 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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APPROVED		
	Consultant	
Mathematics Department (PEC)		
TOTAL		
27 - 28		
29 - 30		
31 - 32.		

$$\begin{array}{r} x \\ \times 3 \\ \hline \end{array}$$

Given that $X = \{3, 5, 7\}$. Find the number of subsets.

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If

 stands for 2 pens, draw pictures that will represent 40 pens.

5

Find the next number in the sequence below.
10, 12, 15, 20, _____

6

A forty nine minutes speech started at 4:50pm. At what time did it start?

7

Given the figure below, find the perimeter of the figure.



8

The marked price of a radio was sh.54000. A trader bought it and later sold it at sh.7500 less. How much did she sell the radio?