THE MODERN TIMES EXAMINATIONS

PRIMARY SEVEN PRE-MOCK SET ONE

2025

MATHEMATICS

Time allowed: 2 hours 30 minutes

Random No.						Personal No.		

Candidate's Name: ....

Candidate's Signature: ....

District ID No.

Read the following instructions carefully:

1. Do not write write your **School** and **district name** anywhere on this paper.
2. This paper has **two** sections: **A** and **B** Section **A** has **20 questions** (40 marks) and Section **B** has **12 questions** (60 marks) printed altogether.
3. Answer **ALL** questions. **All** the working for **both** Sections **A** and **B** must be shown in the Spaces provided.
4. All working must be done using a **blue** or **black** ball point pen or ink. Any work done in pencil other than graphs and diagrams will not be marked.
5. **No calculators** are allowed in the examination room.
6. Unnecessary **changes** in your work and handwriting that cannot be easily read may lead to **loss of marks**.
7. Do not fill anything in the table indicated for **Examiner's use only** and the boxes inside the question paper.

Turn Over

SECTION A (40 MARKS)

1. Workout: **342 − 101**

2. Round off **34.997** to the nearest tenths.

3. Using a ruler, pencil and a pair of compasses only construct an angle of **105⁰**.

4. Workout: $2 - \dfrac{2}{3}$

5. Find the square of **0.04**.
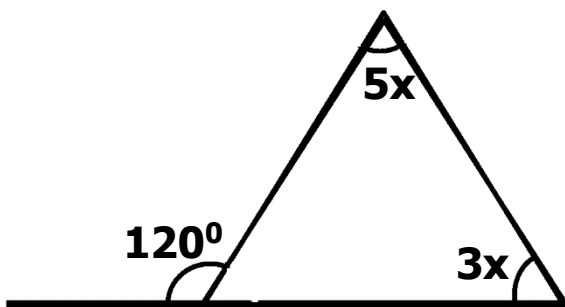

6. Find the next number in the sequence below and write their sum in Roman numerals;

   81, 83, 86, 91, 98, _____, _____

7. Simplify: **9 + 9 ÷ 9**

8. In the figure find the value of **x**.

9.   Write **3985** in scientific notation

10.   Express **25cm** as a percentage of **5m**.

11.   Write **DCCLXXVII** in Hindu Arabic numerals

12.   Express **12:25pm** into a military time.

13.   Simplify: $2 - 3(p - 2)$

14.   Adamma had **sh.7,500** and received **sh.4,500** more from a friend. He later equally shared the money with his elder brother. How much did each get?
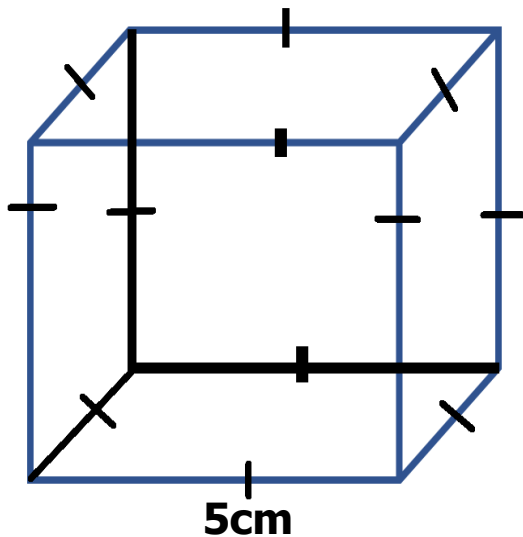
15.   Solve: $1 - 3 = w$ (finite7)

16.   Find the number of elements in a set with **16** subsets

17.   Workout 15 ÷ 3 using repeated subtraction.

18.   Workout the volume of the cube below

5cm

19. Workout the mean of **3p, 7, 3, 2p** and **0**.

20. Write a single numeral that has been expanded to give:

$(9 \times 10^2) + (3 \times 10^0) + (5 \times 10^{-2})$

SECTION B (60 MARKS)

21. a) Change $\dfrac{3}{4}$ in to a decimal fraction. (2 marks)

b) Simplify: $\dfrac{7.2 \times 0.36 \times 4}{2.4 \times 14.4}$

(3 marks)

22. The figure below is representing the magic square of 3 by 3. Study it and find the value of the unknown letters. (4 marks)
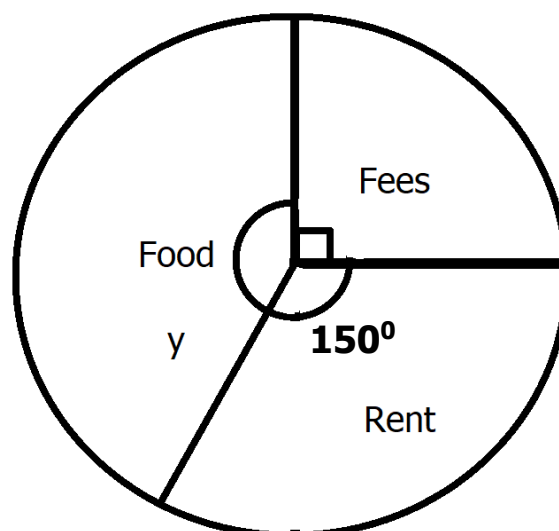
8	3	x
p	5	9
t	n	2

X = _____

p = _____

t = _____

n = _____

23. The Pie-chart represents Sarah's expenditure per month.

a) Find the value of **Y** in degrees   (2 marks)

b) Given that Sarah spends **sh. 36,000** more on rent than on food. How much does she earn per month?   (3 marks)

24. Using a ruler, pencil and a pair of compasses only construct a triangle **POT** where **PO = 7cm** Angle **P = 120⁰** and angle **POT = 30⁰.**

(4 marks)
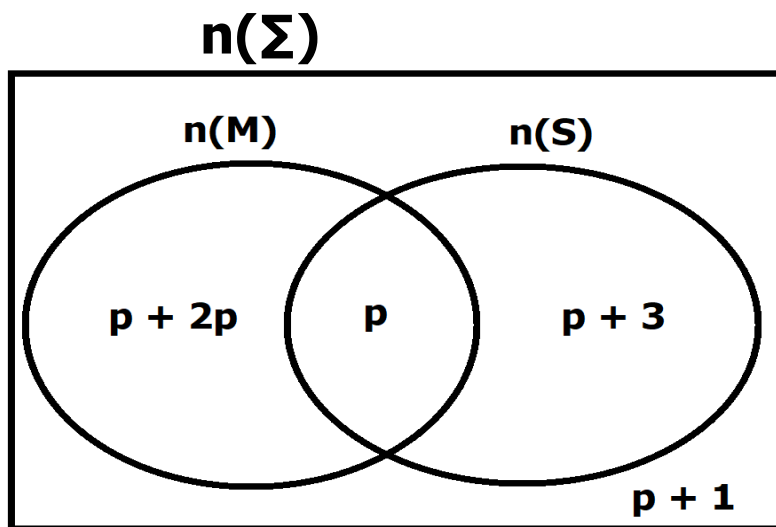
(1 mark)

b) Measure angle **PTO** _____

25.   a) Prime factorize **36** and write your answer in subscript form.

(2 marks)

b) Workout the sum of prime numbers between **40** and **50**.

(3 marks)

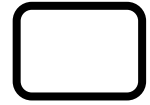26. The Venn diagram below shows learners who passed Mathematics (M) and Science (S).

n(Σ)

n(M)   n(S)

p + 2p   p   p + 3

p + 1

a) If **15** more pupils passed mathematics only than science only. Find the value of **p.**

(3 marks)

b) How many learners did not pass mathematics? (2 marks)

27. A taxi travelling at **80km/h** took **2hrs 30 minutes** to cover part of the journey, the rest of the journey was covered in **1 ½** hours at a speed of **120km** per hour.

a) What distance did the bus cover altogether? (3 marks)

b) Workout the average speed for the whole journey. (2 marks)

28. Auma is **20** years younger than her mother. In **15** years' time, the mother will be twice as old as the Auma. Work out the age of each person now.
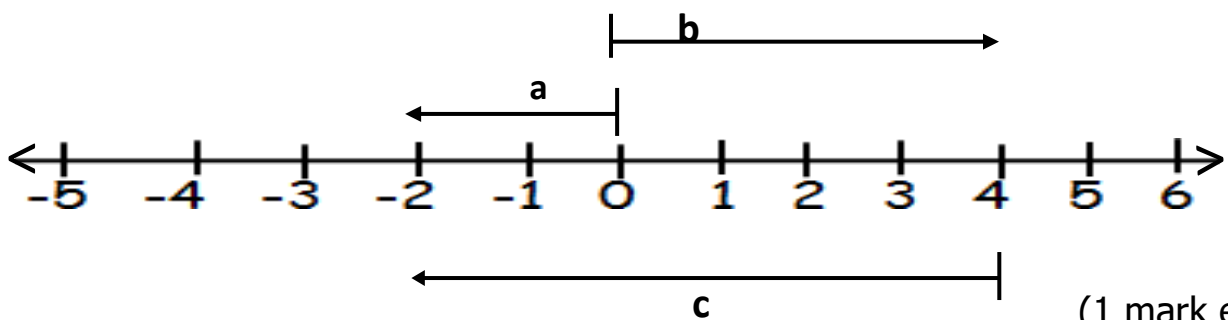
(4 marks)

29. a) Find the principle that can yield **sh. 7,200** in a bank that gives an interest rate of **20%** per year in a period of 6 months.

(4 marks)

b) Calculate the amount of money that will be in that account by the end of the period of **6 months**.
(2 marks)

30. Use the number line below to find the value of the letters.

(1 mark each)

a = _____

b = _____

c = _____

ii) Write the mathematical sentence represented above

31. Study and complete the table below.   (5 marks)

Item	Unit cost	Amount
1 ½ kg of tea	Sh. _____	Sh. 900
2kg of posho	Sh. 3400	Sh. _____
_____bars of soap	Sh. 1800	Sh. 5,850
750gms of salt	Sh. 2000 per kg	Sh._____
	Total	Sh. _____

b) If Richard was given **sh. 1,450** as balance after paying for all the items, what did he have at first?   (1 mark)

32. Peter, Paul and Philips contributed **sh. 24,000**, **sh.36,000** and **sh. 60,000** respectively for a joint project work which made a profit of **sh. 51,000** by the end of the project. They then agreed to separate and each of them starts his own and they shared the total money according to their initial contributions. How much did each person get? (4 marks)

****THE END***