STEM EXAMINATIONS BOARD

PRIMARY SEVEN ASSESSMENT SET VII, 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 your **school** or **district name** anywhere on this paper.
2. This paper has **two** sections: **A** and **B**. Section **A** has **20** questions and Section **B** has **12** questions. The paper has **8 printed pages** 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 easily be read may lead to loss of marks.
7. Do not fill anything in the table indicated: **"For Examiners' use only"** and boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	**Marks**	**EXR'S NO.**
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
TOTAL		

SECTION A : 40 MARKS.

Answer **all** *questions in this section.*

Questions **1** *to* **20** *carry* **two** *marks each.*

1. Work out:
$$\begin{array}{r} 384 \\ +415 \\ \hline \\ \hline \end{array}$$

2. Simplify: $8 - 2p + 3 - 9p$

3. Find the value of;
"9 hundreds + 9 tens"

4. Use >, < or = to compare length correctly.
$1\frac{1}{2}$ km 1500metres

5. From the counting numerals less than 30, select and form;
(i) cube numerals

(ii) square numerals

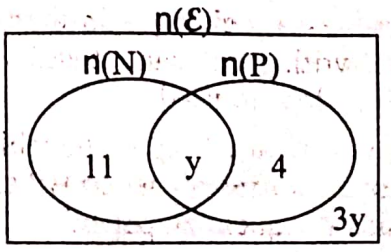
6. Given that  stands for $\frac{1}{2}$ dozen of books, draw picture books that represent $1\frac{1}{2}$ dozens.

7. Tom ate $\frac{1}{2}$ of the cake while Sarah ate $\frac{1}{3}$ of the cake.
What fraction of the cake was eaten?

8. Express 72km/hr to m/sec.

9. Round off 4080 to the nearest hundreds.

10. In the Venn diagram below, calculate the value of n(Ɛ).



11. How many lines of folding symmetry has a regular hexagon?

12. Complete the tally table below correctly.

Name	Age	Tallies
Sam	.....	.....
Joy	20	.....
Total age		

13. Find the perimeter of a square whose area is $49dm^2$.

14. Use the digits 8, 0, 3 and 7 to form the largest and smallest numerals.
(i) Largest

(ii) Smallest

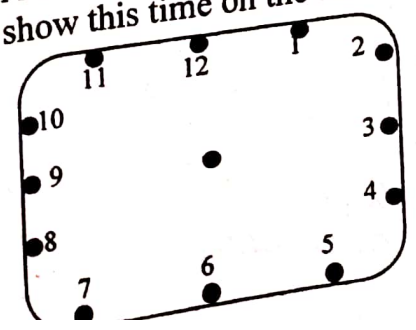
15. Work out: $1\frac{1}{3} - \frac{3}{5}$

16. Using a ruler, a pencil and a pair of compasses only, construct an angle of 30^0 in the space below.

17. Express $8.06 \times 10^{+3}$ as a single numeral.

18. Solve for the integer y;
$^-3 - {}^-y = 4$

19. A taxi arrived at the stage at midnight. show this time on the clock face below.



20. The loss from a watch sold at Shs. 20,000 was Shs. 2,000. Calculate the cost price of the watch.

Turn over

SECTION B : 60 MARKS

*Answer **all** questions in this section.*
Marks for each question are indicated in the brackets.

21. (a) Solve for base x: $23_x = 19$ *(2 marks)*

(b) Write $(1 \times 10^2) + (9 \times 10^0)$ in Roman numerals. *(2 marks)*

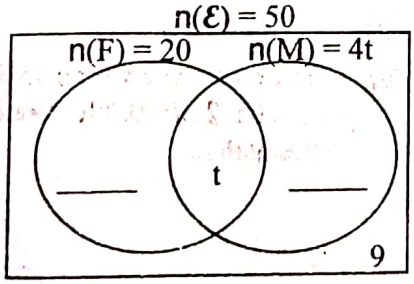
(c) Find the place value of **3** and the value of **6** in the numeral **3069**. *(2 marks)*

22. (a) Work out: $\frac{1.62 + 1.62}{1.8}$ *(3 marks)*

(b) A farmer deposited Shs. 50,000 on his savings bank account at a simple interest rate of 8% for $\frac{1}{2}$ a year. How much interest did he gain after the period? *(2 marks)*

23. In a class of 50 candidates 20 eat fish (F), 3t eat meat (M) only and t candidates eat both fish and meat while 9 candidates eat neither of the two sauce.

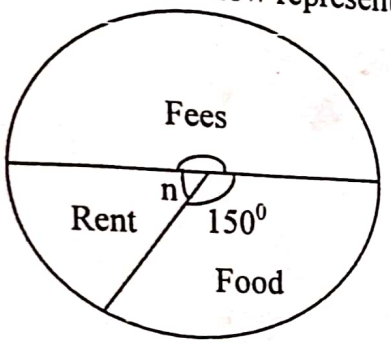
(a) Represent the above information on the Venn diagram below. *(2 marks)*



(b) Solve for the value of t. *(2 marks)*

(c) How many candidates eat one type of sauce only? *(1 mark)*

24. The pie-chart below represents a parent's expenditure per month.

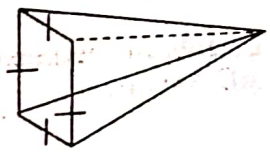


(a) Find the value of n in degrees. *(2 marks)*

(b) If a parent spends Shs. 60,000 on rent, how much does he spend on fees? *(3 marks)*

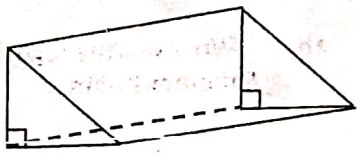
25. (a) Name the geometric figures drawn below.

(i)



..... *(1 mark)*

(ii)



.....*(1 mark)*

(b) Draw the nets of the geometric figures named below.

(i)

Cylinder *(1 mark)*

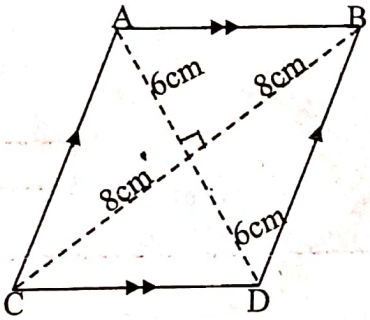
(ii)

Tetrahedron *(1 mark)*

Turn Over

26. A parent banked his son's school fees as follows:
6 — Five thousand shillings notes
4 — Twenty thousand shillings notes
7 — Two thousand shillings notes
If he remained with 8 — ten thousand shillings notes, how much did he went to bank with? *(5 marks)*

27. The figure below is a rhombus ABCD.



(a) Find the area of the rhombus ABCD above. *(2 marks)*

(b) Work out the length CD of the rhombus above. *(2 marks)*

(c) Calculate the perimeter of the rhombus ABCD above. *(2 marks)*

28. (a) Solve for $\square$:
$\frac{\square}{11} = 13$ *(2 marks)*

(b) Given that $x = -3$, find the value of $2x + x^2$ *(2 marks)*

29. With the help of a ruler, a pencil and a pair of compasses only, construct an isosceles triangle ABC where AB = 7cm, angle CAB = 90^0 and side AB = AC.

(5 marks)

30. Abdul and Andrew contributed Shs. 400,000 for the party in the ratio 2:3 respectively.

(a) How much did each contribute?

(i) Abdul *(2 marks)*

(ii) Andrew *(2 marks)*

(b) How much more money did Andrew contribute than Abdul? *(2 marks)*

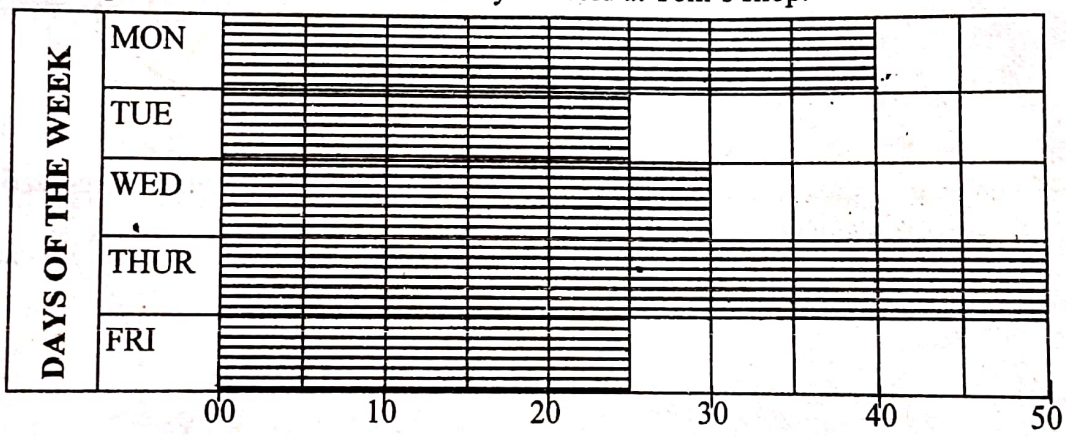
Turn Over

31. A bucket full of flour weighs 19.08kg. The weight of empty bucket alone is 1.08kg.

(a) How many grams of flour are in the bucket? *(3 marks)*

(b) Find the weight of the bucket when $\frac{2}{3}$ full of flour. *(2 marks)*

32. The graph below shows number of bicycles sold at Tom's shop.



(a) On which day was the least number of bicycles sold? *(1 mark)*

(b) Work out the range of the bicycles sold. *(2 marks)*

(c) Calculate the average of bicycles sold that week. *(2 marks)*

END