

STEM EXAMINATIONS BOARD
TERM ONE ASSESSMENT SET V, 2024
PRIMARY SEVEN
MATHEMATICS

Time Allowed: 2 hours 30 minutes

Random No.	Personal No.
Index No.	

Candidate's Name:

Candidate's Signature:

District ID No:

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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		

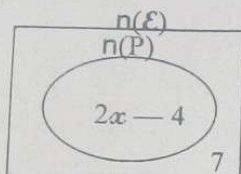
SECTION A : 40 MARKS.

Answer all questions in this section.

Questions 1 to 20 carry two marks each.

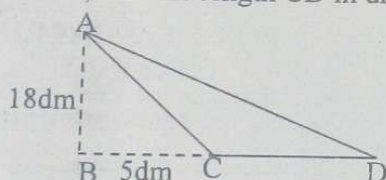
1. Work out: $345 - 123$
2. Given that $m = 4 = p$ and $y = 3$.
Simplify: $2y + mp$

3. If $x = 7$, find $n(E)$ from the Venn diagram below.

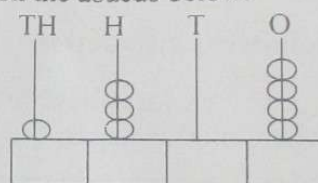


4. Calculate the 16th triangular number.

5. The area of the triangle ACD below is 63dm^2 , find the length CD in dm.



6. Write the value of 3 from the numeral shown on the abacus below.



7. Two pupils collected eggs on Sunday as below;

Joy collected: $\begin{array}{|c|c|c|c|} \hline |||| \\ \hline \end{array} \begin{array}{|c|c|c|c|} \hline |||| \\ \hline \end{array} \begin{array}{|c|c|c|c|} \hline |||| \\ \hline \end{array} \begin{array}{|c|c|c|} \hline ||| \\ \hline \end{array}$ eggs

Tom collected: $\begin{array}{|c|c|c|c|} \hline |||| \\ \hline \end{array} \begin{array}{|c|c|c|c|} \hline |||| \\ \hline \end{array} \begin{array}{|c|c|c|} \hline ||| \\ \hline \end{array}$ eggs

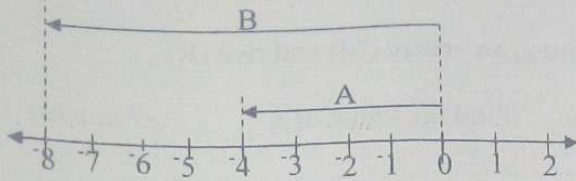
How many more eggs did Joy collect than Tom?

8. Work out: $\frac{1.72 + 0.28}{0.25}$

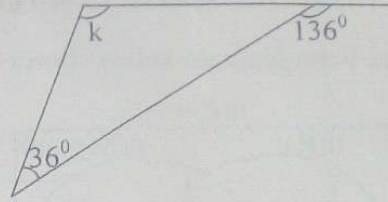
9. The profit from a watch sold at Shs. 19,000 was Shs. 1,800. What is the cost price of the watch?

10. Find the value of base y: $14_{\text{ten}} = 24_y$

11. Write the subtraction sentence shown on the number line below.



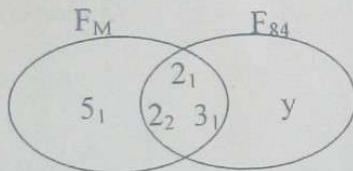
12. Work out the size of angle marked k in degrees from the figure below.



13. Arrange 3.0, 0.7, 1.6 and 2.5 in descending order using a number line.

14. Solve for n : $2n + 3 = 13$.

15. Use the Venn diagram of prime factors below to find;



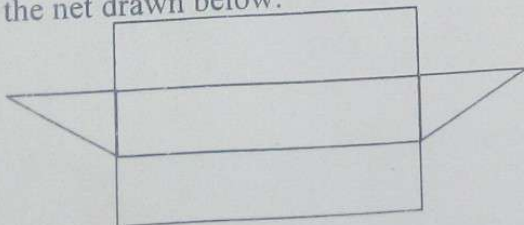
16. Convert "9 tens + 9 ones" to Roman numerals.

- (i) Value of y . (ii) GCF of M and 84 .

17. Work out:
- | Weeks | Days |
|-------|------|
| 15 | 6 |
| + 9 | 5 |
| <hr/> | |
| <hr/> | |

18. How many packets of 500 grammes can be got from 5.5kg of salt?

19. Draw a figure that can be formed from the net drawn below.



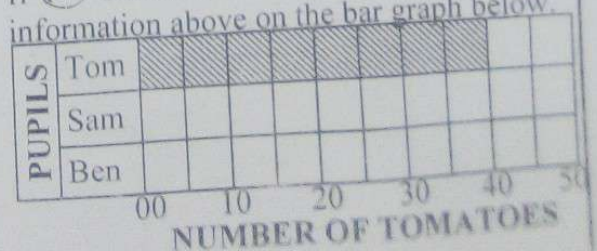
20. Below is a record of how different pupils collected some tomatoes:

Tom =

Sam =

Ben =

If stands for 10 tomatoes, show the information above on the bar graph below.



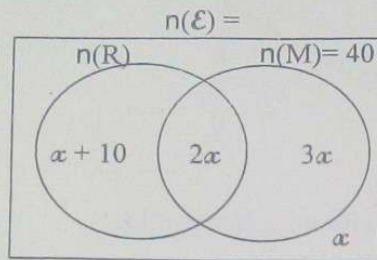
Turn over

SECTION B : 60 MARKS

Answer **all** questions in this section.

Marks for each question are indicated in the brackets.

21. The Venn diagram below shows farmers who grow maize (M) and rice (R).




- (a) Find the value of x . (2 marks)

- (b) Work out the probability of picking a farmer who grows one type of crop only. (3 marks)

22. A village in a district has 3000 people, $\frac{1}{3}$ of these people are males.

- (a) How many females are in the village? (2 marks) (b) Calculate the ratio of males to females. (2 marks)

23. The table below shows a pupil's school fees deposit slip, study and complete it correctly. (6 marks)

 DUPLICATION: PUPIL'S COPY TO BE KEPT BY THE PUPIL												
CREDIT: NATURE PARENTS P/S P.O BOX 033 SOROTI												
A/C No:	4	0	1	2	1	3	0	0	0	1	1	6
Date: 02/04/2024			Class: P.7 Term: One									
Pupil's Name: NATUKUNDA CECILIA												
DENOMINATION	NUMBER OF NOTES/COINS										AMOUNT	
Shs. 50, 000	2										Shs. 100,000	
Shs. 20,000	.....										Shs. 60,000
Shs. 10,000	.....										Shs.
Shs. 5,000	4										Shs.	
Shs. 2,000	.....										Shs.
Shs. 1,000	.....										Shs. 8,000
Shs. 500	.....										Shs.
Shs. 200	.....										Shs.
Shs. 100	.....										Shs.
Bank charges:										Shs. 2,000		
Total amount:										Shs. 195,000		
Amount in words:												
.....												

24. (a) Use commutative property to solve for \square ;
 $\square \times 11 = \square \times 7$

(2 marks)

(b) Simplify: $\frac{3^4 \times 3^6}{3^7}$

(2 marks)

(c) Express 0.00308 in standard form. (2 marks)

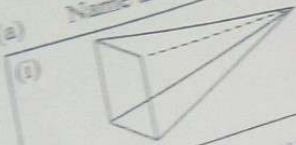
25. With the help of a ruler, a pencil and a pair of compasses only, construct a triangle ABC in which AB = 6cm, angle ABC = 45° while angle CAB = 90° . (5 marks)

26. Andrew bought a 20 litre jerrycan of cooking oil at Shs. 120,000. He sold off the cooking oil using $\frac{1}{2}$ litre plastic bottles making a profit of 20%.

(a) How many $\frac{1}{2}$ plastic bottle did he sell altogether? (2 marks)

(b) Calculate his total selling price of the cooking oil. (3 marks)

27. (a) Name and draw the geometric figures below.



(ii)

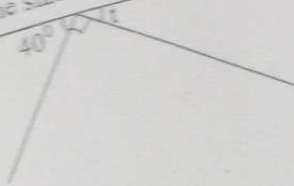
(1 mark)

(1 mark)

Cone

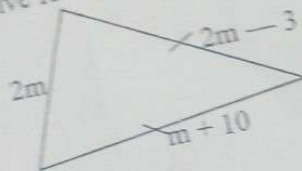
(2 marks)

- (b) Work out the size of angle marked t in degrees.



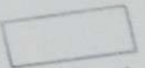
(2 marks)

28. (a) Solve for the value of m from the figure below.



(2 marks)

- (b) Find the value of \square : $\frac{3\square}{7} = 18$

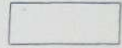


29. A teacher drove from home at 9:50am travelling at a speed of 60km/hr and arrived school 150km away in the noon.
At what time did he arrive school?

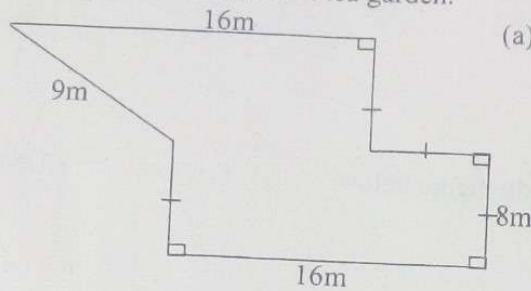
(5 marks)

30. The total sum of edges of a small cube tank is 360cm.
How many litres of milk can it hold when full?

(5 marks)



31. The figure below shows a tea garden.

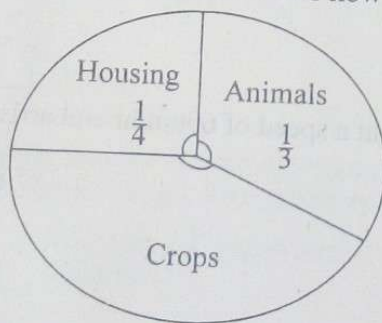


- (a) Calculate the area of the tea garden .
(4 marks)

- (b) Work out the perimeter of the garden above.

(2 marks)

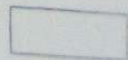
32. The pie chart below shows how a parent divided his land for farming and housing.



- (a) What fraction of his land was retained for crops?
(2 marks)

- (b) Express the total land for animals in degrees.
(1 mark)

- (c) If there are 104 hectares for housing, find the total land in hectares he had altogether.
(2 marks)



END