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

| (i)  | (ii) |
|---|---|
| ...............(1 mark) | Cone |

(1 mark)

(2 marks)

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



$40^0$    t
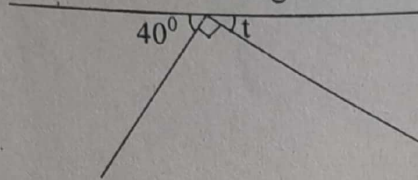
(2 marks)

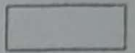28. (a) Solve for the value of m from the figure below.



2m

2m — 3

m + 10
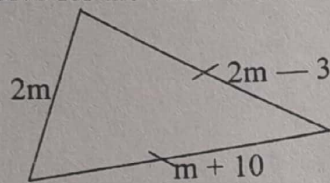
(b) Find the value of ☐ :  $3\dfrac{\square}{7} = 18$

(2 marks)

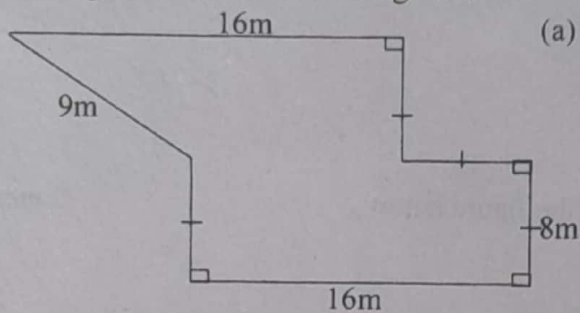29. A teacher drove from home at 9:50am travelling at a speed of 60km/hr and arrived s
150km away in the noon.
At what time did he arrive school?

(5 mark

Tu

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)*
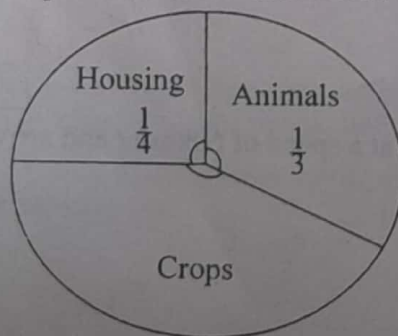
31. The figure below shows a tea garden.



16m

9m

16m

8m

(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.



Housing $\frac{1}{4}$

Animals $\frac{1}{3}$

Crops

(a) What fraction of his land was retained f crops? *(2 marks)*

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

(c) If there are 104 hectares for hous find the total land in hectares he altogether. *(2 marks)*

(b)    Simplify: $\dfrac{3^4 \times 3^1}{3^7}$

(c )    Express 0.00308 in standard form

(2 marks)

(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 = $45^0$ while angle CAB = $90^0$.    (5 marks)

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

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

(b)    Calculate his total selling price of the cooking oil.    (3 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 ☐ ;
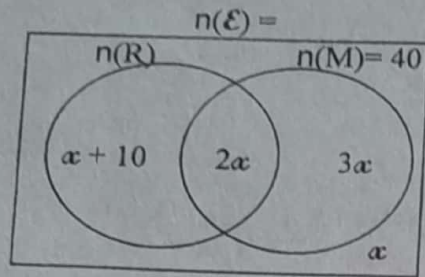☐ x 11 = ☐ x 7

(2 marks)

5

*Turn Over*

**SECTION B : 60 MARKS**
*Answer **all** questions in this section.*
*Marks for each question are indicated in the brackets.*

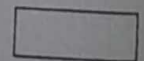21.    The Venn diagram below shows farmers who grow maize (M) and rice (R).

$n(\mathcal{E}) =$

$n(R)$        $n(M) = 40$

$x + 10$      $2x$      $3x$
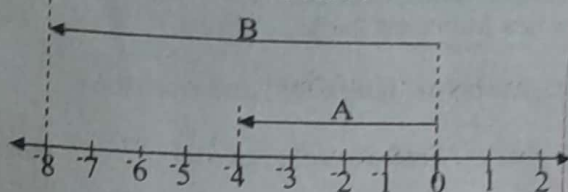
$x$

(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)*

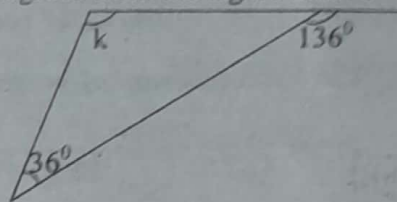22.    A village in a district has 3000 people, $\frac{1}{3}$ of these people are males.
    (a)    How many females are in the village?    (b)    Calculate the ratio of males to
                        *(2 marks)*            females.        *(2 marks)*

4

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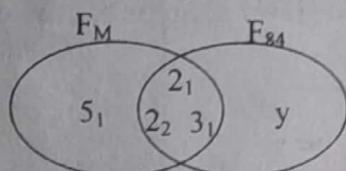


**12.** Work out the size of angle shown in degrees from the figure below.



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

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

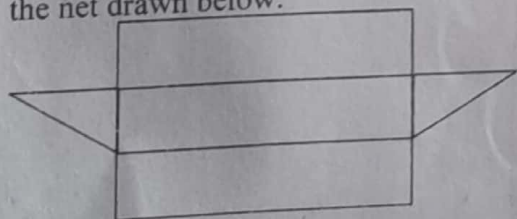**15.** Use the Venn diagram of prime factors below to find;



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

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

**17.** Work out:

| Weeks | Days |
|-------|------|
| 1 5   | 6    |
| + 9   | 5    |

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

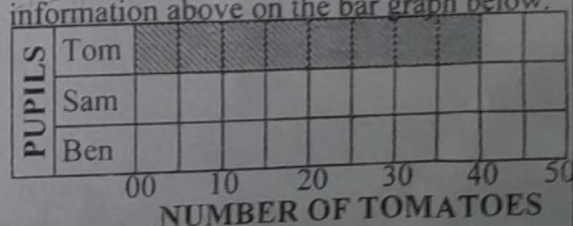**19.** Draw a figure that can be formed from the net drawn below.



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

Tom = 🍅🍅🍅🍅

Sam = 🍅🍅🍅🍅🍅

Ben = 🍅🍅🍅🍅

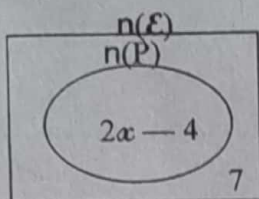If 🍅 stands for 10 tomatoes, show the information above on the bar graph below.

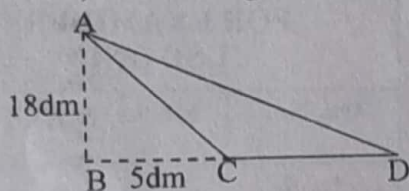*Turn over*

1.    Work out:    $345 - 123$

2.    Given that $m = 4 = p$ and $y = 3$.
      Simplify: $2y + mp$

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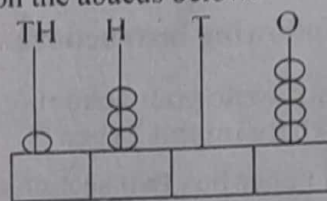


4.    Calculate the $16^{th}$ triangular number.

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: ‖‖ ‖‖ ‖‖ ‖‖‖ eggs

      Tom collected: ‖‖ ‖‖ ‖‖‖‖ eggs
      How many more eggs did Joy collect than Tom?

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

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:    $14_{\text{ten}} = 24_y$

2

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

*Time Allowed: 2 hours 30 minutes*

| Index No. | 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.