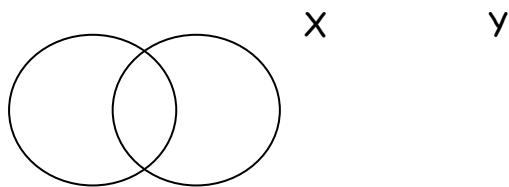## MATHEMATICS HOLIDAY WORK SET SIX

Name: _____**Stream**_____

SECTION A

1.   Work out: $20 \div 2$

2.   Shade X – Y

X   Y

3.   Simplify: $^-7 - {}^-4$

4.   Write 6060202 in words

5.   Subtract: Hr   Min
                    4   2 0
                 - 1   5 0
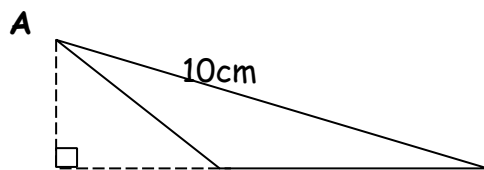
                 _____

6.   Add: 2 3 1$_{five}$
           + 2 2$_{five}$

           _____

7.   Find the next number in the sequence.
      5, 6, 8, 11, 15, _____

8.   A driver covered ⅓ of his journey of 72km. What distance wasn't covered?

9.   Find the area of triangle ABC.
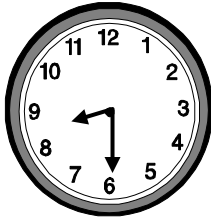
6cm

D   4cm **B**   4cm   **C**

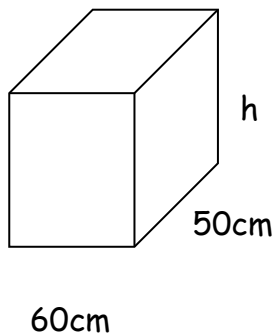10.   Using a protractor, draw an angle of 60^0.

11.   What morning time is shown on the clock face?
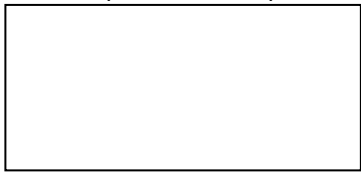

12.   Musoke sold a fridge at Sh. 850,000 making a loss of sh. 115,500. What was the buying price of the fridge?

13.   Work out: $\dfrac{1}{2} + \dfrac{1}{3}$

14. The volume of a box is 120000cm^3. Find its height(h).

h

50cm

60cm

15. Solve: y + 2y + 3y = 48

16. How many lines of symmetry does a rectangle given below have?

17. A cyclist rode for 4 hours at a speed of 65km per hour. Find the distance he travelled.

18. Work out: 3 + 4 = _____ (finite 5)

19. Find the value of $\underline{3q\ +\ 6p}$ If p = 2,   q = 4   and r = 3
    r

20. A pupil scored the following marks in Mathematics tests;
    45, 70, 29, 64, 39, 51, 72.   Find the median mark.

SECTION B

21. (a) Find the number that has been expanded to give;
        $(8 \times 10^4)\ +\ (3 \times 10^2)\ +\ (5 \times 10^0)$ *(2 marks)*

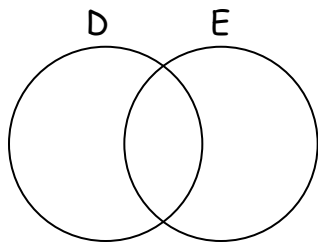   (b)   Show 4203 on the abacus.   *(2 marks)*

(c)   Kato's grandfather is 99 years old. Express her age in Roman numerals.   *(2 marks)*

22.   Musinguzi went shopping and bought the following items; What was his total expenditure?   *(5 marks)*

- ○ 3kg of maize flour at sh. 1800 a kg. ○ 1 ½ kg of rice at sh. 2400 a kg. ○ 500 gm of salt at sh. 1000 for every 1 kg.
- ○ 4 bars of soap at sh. 5500

23.   If   D = {1, 2, 3, 4, 5, 6} and E = {1, 4, 9, 16, 25}

(a)   Represent the above information on the venn diagram.   *(3 marks)*

D   E

(b)   Find: D ⊓ E   *(1 mark)*

(c)   Find D'   *(1 mark)*

(d)   Find n(D ⬚ E)   *(1 mark)*

24.   Work out: (a) $\frac{1}{2}$ of 36 + $\frac{3}{4}$ of 16   *(3 marks)*
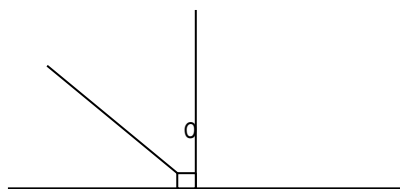
(b)   Fill in the missing number.   *(2 mark)*
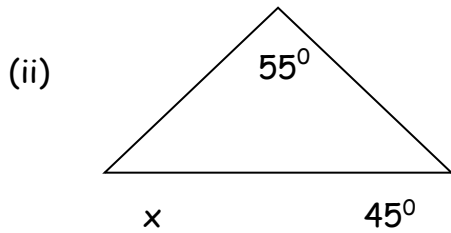
$\dfrac{3}{5}$ = $\dfrac{12}{\square}$

25.   (a)   Find the unknown angle   *(2 marks each)*
(i)

55

x

(ii)

55⁰

x   45⁰

(b)   Wasswa took anticlockwise direction from East to point West. Through what
        angle has he turned?   *(2 marks)*

26.   Katumba scored the following marks in Maths weekly tests; 80, 70, 68, 70 and 62
            Calculate Katumba's

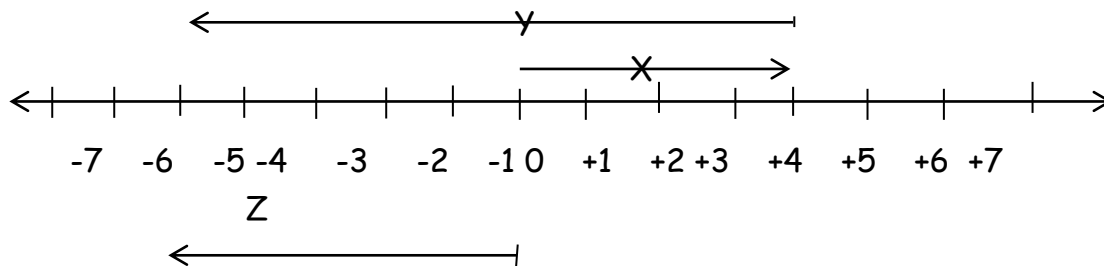(a) mean mark   *(2 marks)*

(b) modal mark   *(1 mark)*

(c) range   *(2 marks)*

27.   (a)   Solve: $\dfrac{3a}{5}$ = 9   *(2 marks)*

      (b)   Solve: $2P^2$ = 72   *(2 marks)*

      (c)   Barbra received 5y books from her mother, father gave her 3y books and she
            bought 4 books. Altogether she had 36 books. Find the number of books
            father gave her.   *(2 marks)*

28.   Study the number line below and answer the questions that follow.

      (a)   Identify the integers represented by the arrows;   *(1 mark each)*
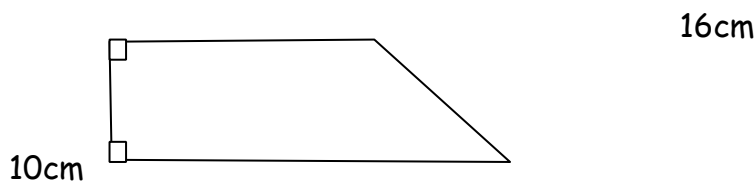
      (i)   X _____ (ii) Y _____ (iii) Z _____

(b)   Write down the mathematical statement shown on the above number line.
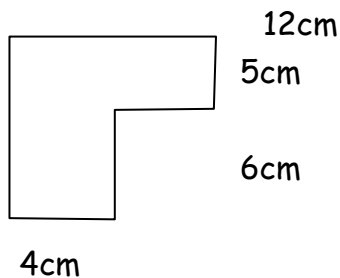
(1 mark)

29.   (a)   Add: 0.25 + 2.5 + 25   *(2 marks)*

(b)   Subtract: 58. 4 - 2.34   *(2 marks)*
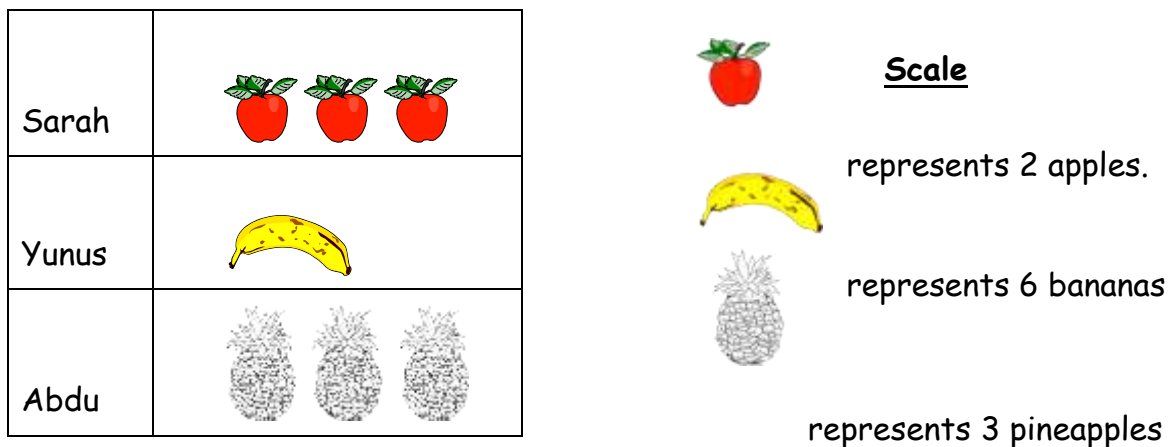
30.   (a)   Find area of the figure below.   *(2 marks)*

16cm

10cm

20cm

(b)   Find the perimeter of the figure below.   *2 marks)*

12cm

5cm

6cm

4cm

31. Using a ruler, a pencil and a pair of compasses only, construct an equilateral triangle of radius 4cm. *(4 marks)*

32. _The pictograph below shows different fruits collected by 3 pupils for Mathematics lesson. Study it and answer the questions that follow._

Sarah	🍎🍎🍎
Yunus	🍌
Abdu	🍍🍍🍍

Scale

🍎 represents 2 apples.

🍌 represents 6 bananas

🍍 represents 3 pineapples

   (a) How many apples did Sarah bring? *(1 mark)*

(b)   Who brought more fruits?   *(2 marks)*

(c)   Find the total number of fruits brought.   *(2 marks)*

Good Luck to you all and take great care please!