# Class - 6
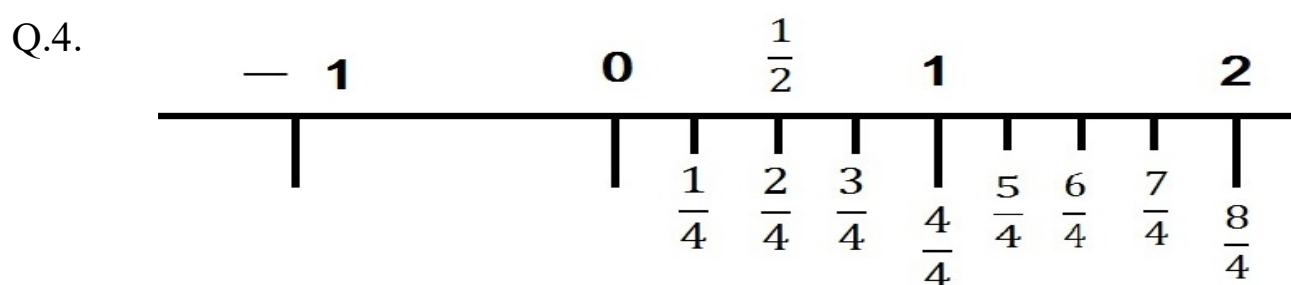## Subjects – Maths
## Answer Key Set - 1

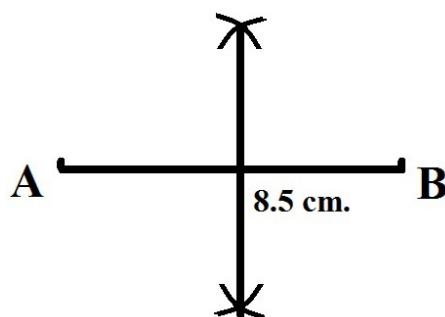Q.1. A.  (i) a    (ii) c    (iii) c    (iv) b    (v) b

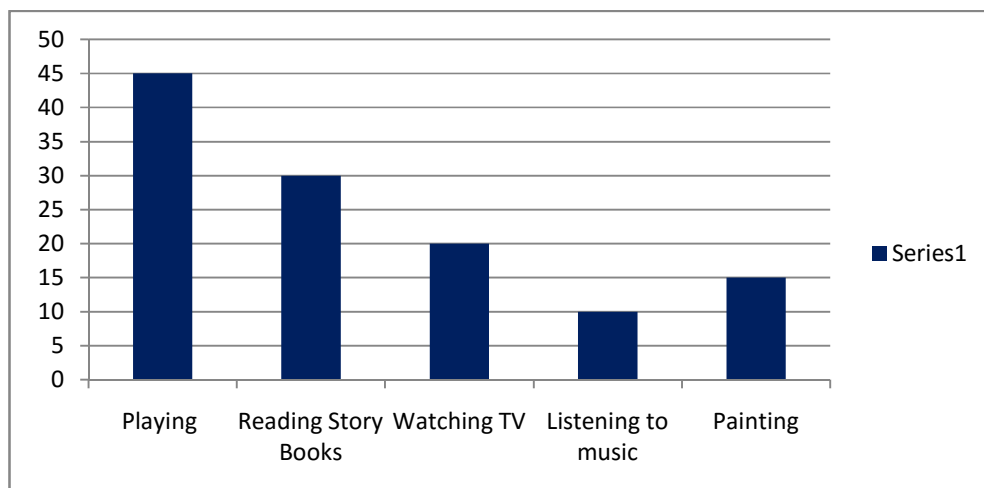Q.2.  (a)  $\dfrac{4}{10} < \dfrac{4}{10}$    (b)  $\dfrac{10}{25} > \dfrac{2}{10}$

Q.3.  $\dfrac{1\ week\ 5\ days}{24\ days} = \dfrac{7+5}{24} = \dfrac{12}{24} = \dfrac{1}{2}$

Q.4.



Q.5.



Q.6.

Q.7.  Length of field  =  40 m
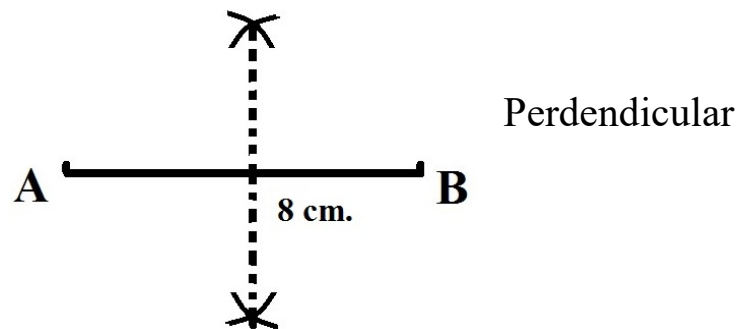
  =  50 m

Ratio of length to the breadth  $= \dfrac{40}{25}$

  $= \dfrac{8}{5} = 8 : 5$

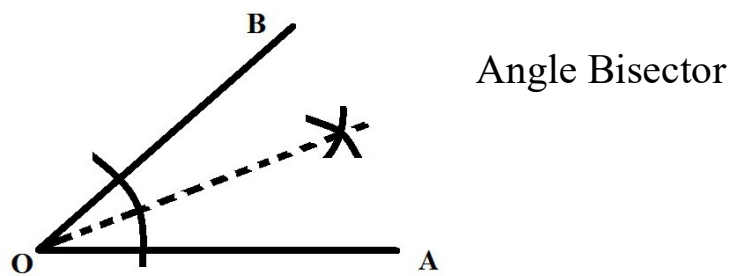Q.8.  Write a fraction in lowest terms

(a)  $0.6 = \dfrac{6}{10} = \dfrac{3}{5}$    (c)  $0.75 = \dfrac{75}{100} = \dfrac{3}{4}$

(b)  $0.25 = \dfrac{25}{100} = \dfrac{1}{4}$

Q.9.

Perdendicular

A ____ 8 cm. ____ B

Q.10.

Angle Bisector

B

O

A

Q.11.    Perimeter of Square  = 4 a
         where a is side of square
         4 a   =    32 cm.
         4 a   =    4 x 8 cm.
         a     =    8 cm.


Q.12.    Length of the park           =    250 m  −  a
         length of fencing      =    250 m  −  a (perimeter of the park)
         Length of fencing      =    4 x a
                                =    4 x 250
                                =    1000
         Length of fencing
         Cost of fencing per meter   =    RS   20
         Cost of fencing             =    length of fencing   x 20 RS
                                     =    1000 x 20  =     20000 Rs


Q.13.    The required container has to measure all the three tankers in a way that
         the count is an exact number of times. So its capacity must be an exact
         divisor of the capacities of all tankers moreover, this capacity should be
         maximum. Thus the maximum capacity of such a container will be the
         HCF of 403, 434 and 465 it is calculated as follows.

| 13 | 406 |   | 2 | 434 |   | 3 | 465 |
|----|-----|---|----|-----|---|----|-----|
| 31 | 31 |   | 7 | 217 |   | 5 | 155 |
|    | 1  |   | 31 | 31 |   | 31 | 31 |
|    |    |   |    | 1  |   |    | 1  |

         Hence
         403  =    31 x 13
         434  =    31 x 7 x 2
         465  =    31 x 5 x 3
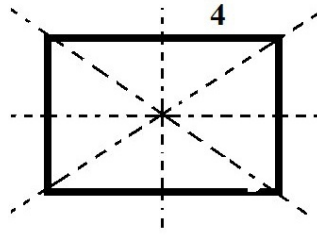
         The common factor of 403, 434 and 465 is = 31
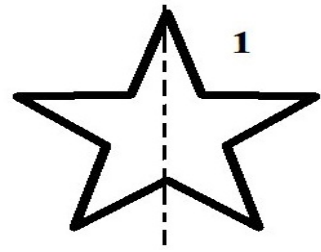         There the  H.C.F. of 403, 434 and 465 = 31
         Therefore, maximum capacity of the required container is 31 liters It
will measure the first container in 13 times second in 14 times and third in 15
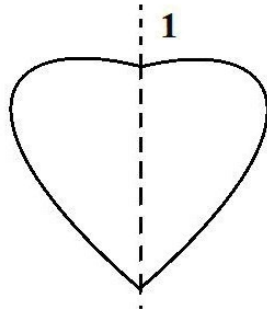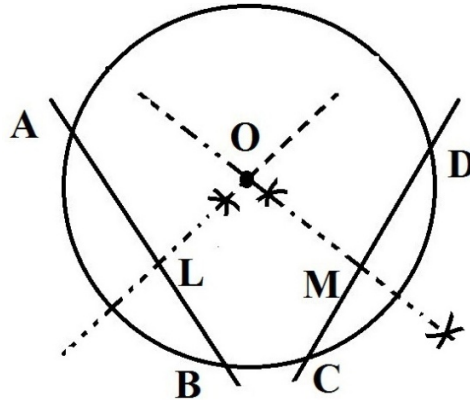times

Q.14.    (a)



(b)

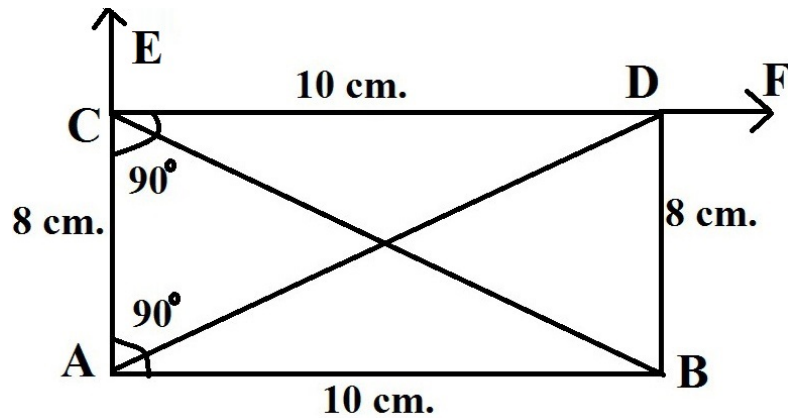

(c)



All the three figure are symmetry

Q.15.



Steps of  construction
1.    Draw a circle of radius 4 cm. with help of rounder
2.    Draw any two chords on it with the help of scale
3.    Draw a perpendicular bisector on both chord with help of rounder
       we saw that both the bisector melt in a point which is centre of circle

# OR



Steps of construction.

1. Draw a line segment of 10 cm.
2. Make an angle of $90^0$ at the point A.
3. Take a point C on AE that AC = 8 cm.
4. Draw an angle of 90 at the point C
5. Take a point D on CF Such that CD = 10 cm.
6. Connect the point B with D.
7. Now we get the figure of rectangle ABCD
8. Join the point A to D and B to C. AD is the bisector of angles ∠A & ∠D. BC in the bisector of angle ∠B & ∠C.