

Exercise 7.2

Q.1 Write each of the following as decimals.

- (i) Three tenths (ii) Two ones and five tenths
 (iii) Thirty and one tenths
 (iv) Twenty two and six tenths
 (v) one hundred, two ones and three tenths.

Solution (i) ~~Five~~ Three tenths = $\frac{3}{10} = 0.3$

(ii) Two ones and Five tenths = $2 + \frac{5}{10} = 2.5$

(iii) Thirty and one tenths = $30 + \frac{1}{10} = 30.1$

(iv) one hundred, two ones and three tenths

$$= 100 + (2 \times 1) + \frac{3}{10}$$

$$= 102.3$$

Q.2 Write each of the following as decimals.

(i) $30 + 6 + \frac{2}{10}$

(ii) $700 + 5 + \frac{7}{10}$

(iii) $200 + 60 + 5 + \frac{1}{10}$

(iv) $200 + 70 + 9 + \frac{5}{10}$

Sol: (i) 36.2

(ii) 705.7

(iii) 265.1

(iv) 279.5

Q.3 Write each of the following as decimals:

(i) $\frac{22}{10}$

(ii) $\frac{3}{2}$

(iii) $\frac{2}{5}$

Solution (i) $\frac{22}{10} = \frac{20+2}{10} = \frac{20}{10} + \frac{2}{10}$
 $= 2 + \frac{2}{10} = 2.2$

(ii) $\frac{1}{2} \times \frac{5}{5} = \frac{5}{10} = 0.5$

(iii) $\frac{2}{5} \times \frac{2}{2} = \frac{4}{10} = 0.4$

Q.4 Write each of the following as decimals:

(i) $40\frac{2}{5}$

(ii) $39\frac{2}{10}$

(iii) $4\frac{3}{5}$

(iv) $25\frac{1}{2}$

Solution: (i) $40\frac{2}{5} = 40 + \frac{2}{5} = 40 + \frac{2 \times 2}{5 \times 2}$
 $= 40 + \frac{4}{10} = 40.4$

(ii) $39\frac{2}{10} = 39 + \frac{2}{10} = 39.2$

(iii) $4\frac{3}{5} = 4 + \frac{3}{5} = 4 + \frac{3 \times 2}{5 \times 2} = 4 + \frac{6}{10} = 4.6$

(iv) $25\frac{1}{2} = 25 + \frac{1}{2} = 25 + \frac{1 \times 5}{2 \times 5} = 25 + \frac{5}{10} = 25.5$

Q.5 Write the following decimals as fractions,
Reduce the fractions to lowest form:

(i) 3.8 (ii) 21.2 (iii) 6.4 (iv) 1.0

Solution (i) $3.8 = 3 + \frac{8}{10} = 3 \times \frac{10}{10} + \frac{8}{10}$
 $= \frac{30}{10} + \frac{8}{10} = \frac{38}{10} = \frac{19}{5}$

(ii) $21.2 = 21 + \frac{2}{10} = \frac{21 \times 10}{10} + \frac{2}{10}$
 $= \frac{210}{10} + \frac{2}{10} = \frac{212}{10} = \frac{106}{5}$

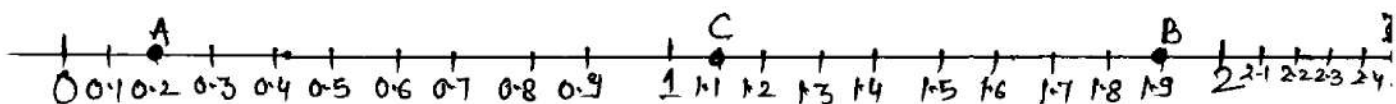
(iii) $6.4 = 6 + \frac{4}{10} = \frac{6 \times 10}{10} + \frac{4}{10} = \frac{60}{10} + \frac{4}{10}$
 $= \frac{64}{10} = \frac{32}{5}$

(iv) $1.0 = 1 + \frac{0}{10} = 1.0$

Q.6 Represent the following decimals numbers on
number line:

(i) 0.2 (ii) 1.9 (iii) 1.1 (iv) 2.5

Solution:



Here, points A, B, C and D represents 0.2, 1.9, 1.1 and 2.5 respectively.

Q.7 Between which two whole numbers on the number line are the given numbers? Which one is nearer the number?

- (i) 0.8 (ii) 5.1 (iii) 2.6 (iv) 6.4
(v) 9.0 (vi) 4.9

Solution: (i) As, 0.8, 8 units from 0 and 2 units from 1, so 0.8 lies between 0 and 1. It is nearer to 1.

(ii) $\therefore$ 5.1 is 1 unit from 5 and 9 units from 6, so 5.1 lies between 5 and 6. It is nearer to 5.

(iii) $\therefore$ 2.6 is 6 units from 2 and 4 units from 3, so 2.6 lies between 2 and 3. It is nearer to 3.

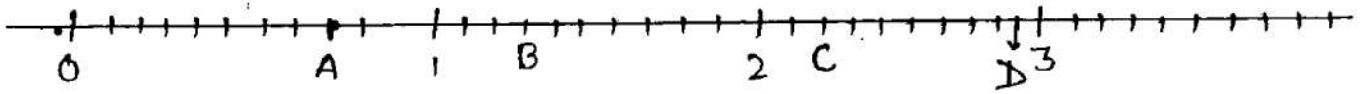
(iv) $\therefore$ 6.4 is 4 units from 6 and 6 units from 7, so 6.4 lies between 6 and 7. It is nearer to 6.

(v) 9.0 is a whole number, hence it is nearer to 9.

(vi) $\therefore$ 4.9 is 9 units from 4 and 1 unit from 5, so 4.9 lies between 4 and 5. It is nearer to 5.

9

Q.8 Write the decimal number represented by the points on the given number line: A, B, C, D.



Solution: A represents 0.8

B represents 1.3

C represents 2.2

D represents 2.9

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