

## Class.6.Maths Solution

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7.Fraction

Ex-7.2

Q1.Draw number lines and locate the points on them.

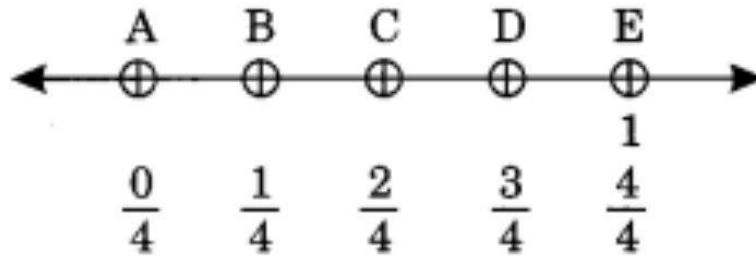
$$(a) \frac{1}{2}, \frac{1}{4}, \frac{3}{4}, \frac{4}{4}$$

$$(b) \frac{1}{8}, \frac{2}{8}, \frac{3}{8}, \frac{7}{8}$$

$$(c) \frac{2}{5}, \frac{3}{5}, \frac{8}{5}, \frac{4}{5}$$

Solution:

$$(a) \frac{1}{2}, \frac{1}{4}, \frac{3}{4}, \frac{4}{4}$$



We have divided the number line from 0 to 1 into four equal parts.

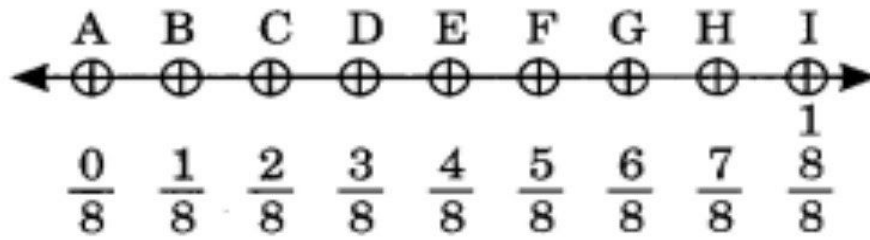
C represents  $\frac{2}{4} = \frac{1}{2}$

B represents  $\frac{1}{4}$

D represents  $\frac{3}{4}$

and E represents  $\frac{4}{4} = 1$

(b)  $\frac{1}{8}, \frac{2}{8}, \frac{3}{8}, \frac{7}{8}$



We have divided the number line from 0 to 1 into eight equal parts.

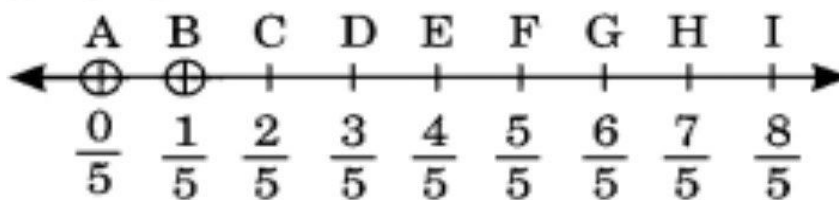
B represents  $\frac{1}{8}$

C represents  $\frac{2}{8}$

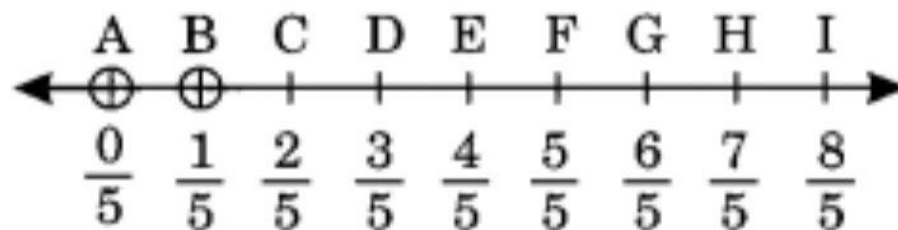
D represents  $\frac{3}{8}$

and H represents  $\frac{7}{8}$

(c)  $\frac{2}{5}, \frac{3}{5}, \frac{8}{5}, \frac{4}{5}$



$$(c) \frac{2}{5}, \frac{3}{5}, \frac{8}{5}, \frac{4}{5}$$



From the above number line, we have

C represents  $\frac{2}{5}$

D represents  $\frac{3}{5}$

E represents  $\frac{4}{5}$

and I represents  $\frac{8}{5}$

**Q2. Express the following as mixed fractions:**

$$(a) \frac{20}{3}$$

$$(b) \frac{11}{5}$$

$$(c) \frac{17}{7}$$

$$(d) \frac{28}{5}$$

$$(e) \frac{19}{6}$$

$$(f) \frac{35}{9}$$

**Solution:**

$$(a) \frac{20}{3}$$

We have,

$$\begin{array}{r} 3 \overline{)20} ( 6 \\ -18 \\ \hline 2 \end{array}$$

$$\therefore \frac{20}{3} = 6\frac{2}{3}$$

$$(b) \frac{11}{5}$$

We have,

$$\begin{array}{r} 5 \overline{)11} ( 2 \\ -10 \\ \hline 1 \end{array}$$

$$\therefore \frac{11}{5} = 2\frac{1}{5}$$

$$(c) \frac{17}{7}$$

We have,

$$\begin{array}{r} 7 \overline{)17} ( 2 \\ -14 \\ \hline 3 \end{array}$$

$$\therefore \frac{17}{7} = 2\frac{3}{7}$$

$$(d) \frac{28}{5}$$

We have,

$$\begin{array}{r} 5 \overline{)28} ( 5 \\ -25 \\ \hline 3 \end{array}$$

$$\therefore \frac{28}{5} = 5\frac{3}{5}$$

$$(e) \frac{19}{6}$$

We have,

$$\begin{array}{r} 6 \overline{)19} ( 3 \\ -18 \\ \hline 1 \end{array}$$

$$\therefore \frac{19}{6} = 3\frac{1}{6}$$

$$(f) \frac{35}{9}$$

We have,

$$\begin{array}{r} 9 \overline{)35} ( 3 \\ -27 \\ \hline 8 \end{array}$$

$$\therefore \frac{35}{9} = 3\frac{8}{9}$$

Q3. Express the following as improper fractions:

$$(a) 7\frac{3}{4} \quad (b) 5\frac{6}{7} \quad (c) 2\frac{5}{6}$$

$$(d) 10\frac{3}{5} \quad (e) 9\frac{3}{7} \quad (f) 8\frac{4}{9}$$

Solution:

$$(a) 7\frac{3}{4} = \frac{7 \times 4 + 3}{4} = \frac{31}{4} \quad \therefore 7\frac{3}{4} = \frac{31}{4}$$

$$(b) 5\frac{6}{7} = \frac{5 \times 7 + 6}{7} = \frac{41}{7} \quad \therefore 5\frac{6}{7} = \frac{41}{7}$$

$$(c) 2\frac{5}{6} = \frac{2 \times 6 + 5}{6} = \frac{17}{6} \quad \therefore 2\frac{5}{6} = \frac{17}{6}$$

$$(d) 10\frac{3}{5} = \frac{10 \times 5 + 3}{5} = \frac{53}{5} \quad \therefore 10\frac{3}{5} = \frac{53}{5}$$

$$(e) 9\frac{3}{7} = \frac{9 \times 7 + 3}{7} = \frac{66}{7} \quad \therefore 9\frac{3}{7} = \frac{66}{7}$$

$$(f) 8\frac{4}{9} = \frac{8 \times 9 + 4}{9} = \frac{76}{9} \quad \therefore 8\frac{4}{9} = \frac{76}{9}$$