

Chapter 4 : Rational Numbers

ASSESSMENT
Max.Marks : 20

A : Choose the correct alternatives in each of the following :

(1 × 5 = 5)

1. The smallest rational number is

- (a) 1 (b) $\frac{0}{1}$ (c) -1 (d) not determined

2. A fraction $\frac{p}{q}$ is a rational number, if p and q are integers and q is

- (a) greater than 0 (b) less than 0 (c) not equal to zero (d) none of these

3. If $\frac{x}{6} = \frac{-8}{3}$, then the value of x is

- (a) -16 (b) 16 (c) 8 (d) -8

4. $\frac{-684}{-256}$ in standard form is

- (a) $\frac{171}{64}$ (b) $\frac{-171}{64}$ (c) $\frac{64}{171}$ (d) $\frac{-64}{171}$

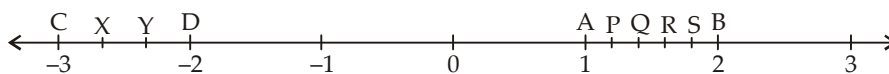
5. The rational number equivalent to $\frac{11}{-6}$ is

- (a) $\frac{-6}{11}$ (b) $\frac{-22}{12}$ (c) $\frac{-12}{22}$ (d) none of these

B : Solve the following :

(3 × 5 = 15)

1. The points $P, Q, R, S, X, Y, A, B, C, D$ on the number line are such that $CX = XY = DY$ and $AP = PQ = QR = RS = SB$. Name the rational numbers represented by the points P, Q, R, S, X and Y .



2. Are rational numbers $\frac{8}{12}$ and $\frac{10}{15}$ equivalent?

3. Arrange the following rational numbers in the ascending order :

$$\frac{-4}{9}, \frac{11}{12}, \frac{-21}{-18}, \frac{1}{-6}$$

4. Insert five rational numbers between $\frac{-5}{7}$ and $\frac{-3}{8}$.

5. Arrange the following rational numbers in descending order :

$$\frac{-2}{5}, \frac{7}{-10}, \frac{-11}{15}, \frac{19}{-30}$$