MATHEMATICS IN EVERYDAY LIFE-7



Chapter 5: Operations on Rational Numbers

ASSESSMENT Max.Marks: 20

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

 $(1\times 5=5)$

- 1. The value of $\left(\frac{-12}{7} + \frac{5}{7}\right)$ is
 - (a) -1

(b) 1

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

- 2. If $\frac{-25}{5} \times \frac{p}{q} = \frac{-1}{5}$, then $\frac{p}{q}$ is equal to
 - (a) -25

(b) -5

- (c) $\frac{-1}{5}$
- (d) $\frac{1}{25}$

- 3. The multiplicative inverse of $\frac{-1}{9}$ × (-2) is
 - (a) $\frac{2}{9}$

(b) $4\frac{1}{2}$

(c) $\frac{-2}{9}$

(d) none of these

- **4.** When $\frac{1}{3}$ is divided by $\frac{1}{15}$, we get
 - (a) $\frac{1}{5}$

(b) $\frac{1}{3}$

(c) $\frac{3}{5}$

- (d) 5
- 5. The sum of two rational numbers is -2. If one of the rational numbers is $\frac{-5}{7}$, then the other number is
 - (a) $\frac{9}{7}$

(b) $\frac{-10}{7}$

- (c) $\frac{-9}{7}$
- (d) $\frac{-5}{14}$

B: Solve the following:

 $(3\times 5=15)$

- **1.** From a starting point *A*, Vivek walks $\frac{3}{4}$ km towards East and then $\frac{7}{6}$ km towards West to reach at a point *B*. Where will he be now from the starting point *A*?
- 2. Divide the sum of $\frac{-11}{-14}$ and $\frac{-3}{7}$ by the product of $\frac{-4}{7}$ and $\frac{-1}{4}$.
- 3. Verify: $x \times (y + z) = x \times y + x \times z$, where $x = \frac{-1}{3}$, $y = \frac{-2}{5}$, $z = \frac{-1}{6}$.
- **4.** What should be added to $\left[\frac{-5}{6} + \frac{1}{4}\right]$ to get -4?
- **5.** Is it possible for two rational numbers $\frac{a}{b}$ and $\frac{b}{a}$ to be equal? Justify your answer with examples.