Chapter-1 Rational Numbers

WORKSHEET-1/2

1. Write True/False

i) All natural numbers are whole numbers.

ii) 0 is a natural number.

iii) All the whole numbers are integers.

iv) An integer which is neither positive nor negative is 0.

v) Additive identity of rational numbers is 1.

vi) Multiplicative identity of rational number is 1.

vii) Rational numbers are closed under addition and subtraction.

viii) The reciprocal of -1 is -1.

2. Choose the correct answer.

i) $\frac{3}{8} \div \left(\frac{-51}{24} + \frac{17}{12}\right)$ is equal to

a) $\frac{3}{4}$ $b)$ $\frac{-9}{17}$ $c)\frac{1}{4}$ $d)\frac{5}{48}$

ii) Among $\frac{-6}{11}, \frac{-6}{13}, \frac{-6}{7}, \frac{-6}{8}$, the greatest number is

a) $\frac{-6}{13}$ $b)$ $\frac{-6}{11}$ $c)\frac{-6}{11}$ $d)\frac{-6}{8}$

iii) The rational number equivalent to $\frac{-20}{35}$ is

a) $\frac{-4}{7}$ $b)$ $\frac{-5}{7}$ $c)\frac{-7}{5}$ $d)\frac{10}{35}$

iv) The sum of additive inverse and multiplicative inverse 2 is

a) $\frac{3}{2}$ $b)$ $\frac{1}{2}$ $c)\frac{-3}{2}$ $d)\frac{-1}{2}$

3. Using suitable rearrangement find the sum.

i) $\frac{4}{7} + \left(\frac{-4}{9}\right) + \frac{3}{7} + \left(\frac{-13}{9}\right)$ ii) $-5 + \frac{7}{10} + \frac{3}{7} + (-3) + \frac{5}{14} + \frac{-4}{5}$

4. Name the property under multiplication used in each of the following.

i) $\frac{-4}{5} \times 1 = 1 \times \frac{-4}{5} = \frac{-4}{5}$ ii) $\frac{-13}{17} \times \frac{-2}{7} = \frac{-2}{7} \times \frac{-13}{17}$ iii) $\frac{-19}{29} \times \frac{29}{-19} = 1$