ANSWER KEY OF WORKSHEET
 CLASS VIII
  MATHEMATICS

WORKSHEET - 1

1. **Fill in the blanks:**
   a) Positive b) The product of 2 negative rational number is a positive rational number

   c)   -1   d) 1 e) $\frac{-8}{5}$

2. a) False   b) True   c) False d) False   e) False

3. a) ii)   b) ii)   c) iii)   d) ii)

4. a) $[\frac{7}{4} + \frac{-3}{8}] + \frac{5}{11} = \frac{7}{4} + [\frac{-3}{8} + \frac{5}{11}]$ [Associativity of addition of rational numbers]

   b) Commutativity of multiplication of rational numbers

   c) Multiplicative identity

   d) Multiplication by zero

5. i)   L.H.S = (X × Y) × Z

$= (\frac{-7}{3} \times \frac{12}{5}) \times \frac{4}{9} = \frac{-112}{45}$

R.H.S   = X ×(Y × Z)

$= \frac{-7}{3} \times (\frac{12}{5} \times \frac{4}{9}) = \frac{-112}{45}$

   ii)   L.H.S   = (X × Y) × Z

$= (\frac{1}{2} \times \frac{5}{-4}) \times \frac{-7}{5} = \frac{7}{8}$

       R.H.S   = X ×(Y × Z)

$= \frac{1}{2} \times (\frac{5}{-4} \times \frac{-7}{5}) = \frac{7}{8}$

WORKSHEET –2

1. Y = 7   2. Z = 4   3. Y = $\frac{3}{2}$ 4. X = $-\frac{8}{5}$ 5. X = 27
6. X = 2   7. X = $\frac{51}{2}$ 8. X = $-\frac{164}{3}$ 9. X = $\frac{9}{25}$ 10. y = $\frac{127}{12}$

WORKSHEET –3

1. X = -2   2. Z = $\frac{3}{2}$ 3. X = 5   4. X = 0   5. X = 40
6. X = 10   7. Y = $\frac{7}{3}$ 8. X = $\frac{27}{10}$ 9. X = $\frac{183}{10} = 18.3$ 10. m = $\frac{4}{5}$

WORKSHEET –4

1. X = -1   2. X = 8   3. T = 2

4. $x + 7 - \frac{8x}{3} = \frac{17}{6} - \frac{5x}{2}$ Ans. X = 4

5. $y = -\frac{4}{5}$ 6. X = 1   7. X = 4   8. Y = -8