St. Andrews Scots Sr. Sec. School

9th Avenue, I.P. Extension, Patparganj, Delhi – 110092

Session: 2024-2025 - Worksheet

Class: VIII	Subject: Mathematics	Topic: Rational Number	Worksheet-02

Do as directed.

Q1: The monthly salary of a man is ₹ 65000, one-fifth of his salary is spend paying the rent, 5/26th of his remaining salary is spent in buying groceries, and half of the rest salary is spent miscellaneous expenses. How much his monthly saving.

Q2: The product of two rational numbers is 15/56. If one of the numbers is −5/48, find the other.

Q3: Let a, b, c be the three rational numbers where a = 2/3, b = 4/5 and c = −5/6
   Verify:
   (i) a + (b + c) = (a + b) + c (Associative property of addition)

   (ii) a × (b × c) – (a × b) × c (Associative property of multiplication)

Q4: If 3/7th of a bucket is 3liters. Then what is the capacity of the bucket?

Q5: Find the value of -6/7 + 9/8 – 3/5 ÷ 4/7.

Q6: Divide the sum of 1⁄7 and 1⁄2 by the product of 9⁄2 and 3⁄7 .

Q7: Using appropriate properties find:

$$-\frac{2}{3} \times \frac{3}{5} + \frac{5}{2} - \frac{3}{5} \times \frac{1}{6}$$

Q8: Using appropriate properties find:

$$\frac{2}{5} \times \left(-\frac{3}{7}\right) - \frac{1}{6} \times \frac{3}{2} + \frac{1}{14} \times \frac{2}{5}$$

Q9: Solve using property 2/5 × (–3/7) – 1/6 × 3/2 + 1/14 × 2/5

Q10: One-third of a group of people are men. If the number of women is 200 more than the men, find the total number of people.