<u>Tutorcrest.in</u>



Class 8 Mathematics – Worksheet 1

Chapter 1: Rational Numbers

Topic: Operations on Rational Numbers

Section A: Basic Concepts (1 Mark Each)

- 1. Write the additive inverse of:
 - a) 5/8
 - b) -3/7
- 2. Express the following in standard form:
 - a) -18/24
 - b) 36/-60
- 3. Identify the rational number between 1/5 and 2/5.
- 4. Write three rational numbers between -1 and 0.

Section B: Operations (2 Marks Each)

- 1. Simplify:
 - a) 3/4 + 5/6
 - b) -7/9 (-2/3)
- 2. Multiply and simplify:

Tutorcrest.in

a)
$$-2/5 \times 3/4$$

3. Divide the following:

b)
$$-9/16 \div 3/8$$

4. Verify if:

$$(a/b) \times (b/a) = 1$$
 for $a = 5$, $b = 3$.

Section C: Word Problems (3 Marks Each)

- 1. A ribbon of 3/8 meters is cut into 4 equal parts. What is the length of each part?
- 2. A bottle contains 5/6 liters of juice. 1/3 liters is poured out. How much juice remains?
- 3. The product of two rational numbers is -14/25. If one number is -7/5, find the other.
- 4. If -3/4 is subtracted from a number, the result is 1/8. Find the number.

Section D: Higher-Order Thinking Skills (HOTS) (5 Marks Each)

- 1. Find five rational numbers between 2/7 and 3/7.
- 2. A rectangular field measures 7/12 km in length and 5/8 km in width. Find the area of the field.
- 3. A class of students scored the following in fractions: 3/5, 4/7, 2/3. Find the average score.
- End of Worksheet
- Practice well and attempt all sections carefully.

