# **Chapter: Rational Numbers**

## Solved Examples:

1. **Simplify:** (2/3) + (5/6)

LCM of 3 and 6 = 6

= (4/6) + (5/6) = 9/6 = 3/2

**Answer:** 3/2

1. **Find the multiplicative inverse of -7/9.**

Multiplicative inverse = -9/7

**Answer:** -9/7

1. **Find the additive inverse of 8/5.**

Additive inverse = -8/504-07-2025

**Answer:** -8/5

1. **Represent 3/4 on the number line.**
   * Divide the segment between 0 and 1 into 4 equal parts.
   * Count 3 parts to the right of 0.

**Answer:** 3/4 will lie to the right of 0, at the third division when 0 to 1 is divided into 4 equal parts.

## Exercise Questions (with answers):

1. **Simplify:** (5/8) - (3/4)

(3/4) = (6/8)

= (5/8) - (6/8) = -1/8

**Answer:** -1/8

1. **Check whether 2/3 \u00d7 3/4 = 3/4 \u00d7 2/3.**

LHS = (2/3) \u00d7 (3/4) = 6/12 = 1/2

RHS = (3/4) \u00d7 (2/3) = 6/12 = 1/2

Since LHS = RHS, they are equal.

**Answer:** Yes, they are equal.

1. **Find the value of:** (3/5) \u00f7 (6/7)

= (3/5) \u00d7 (7/6) = 21/30 = 7/10

**Answer:** 7/10

1. **Find the additive inverse of -11/13.**

Additive inverse = 11/13

**Answer:** 11/13

1. **Find the multiplicative inverse of 4.**

4 = 4/1, so the multiplicative inverse = 1/4

**Answer:** 1/4

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