Class 8 Mathematics – Worksheet 2

Chapter 1: Rational Numbers

Topic: Rational Numbers on Number Line

Section A: Basic Concepts (1 Mark Each)

1. Plot the following rational numbers on a number line:

   a) -3/4

   b) 5/6

2. Which is greater?

   a) -2/5 or 1/4

   b) 7/8 or -5/6

3. Arrange in ascending order: -3/7, 4/9, -5/12, 2/3.

4. Mark the following points on the number line: -2, -1/2, 0, 1/3, 1.

Section B: Operations (2 Marks Each)

1. Represent the following rational numbers on the number line:

   a) -7/10

   b) 11/15

2. Identify two rational numbers that lie between:

   a) -3/5 and 2/5

b) 1/7 and 3/7

3. Place the following rational numbers on a number line: -5/9, 3/8, -1/3, 4/5.

Section C: Word Problems (3 Marks Each)

1. A rope is 3/5 meters long. Mark this length on the number line.

2. A ladder of 7/8 meters is placed against a wall. Show its position on the number line.

3. Identify three rational numbers between -1 and 1 and mark them on the number line.

4. Plot the following rational numbers and compare: -3/7, 2/5, -1/2, 5/9.

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

1. A stick measures 9/16 meters. Divide it into four equal parts and plot each part on a number line.

2. Mark 6 rational numbers between -1 and 1 on the number line.

3. Explain the method to plot -11/8 on the number line.

- ◆ End of Worksheet

✍️ Practice well and attempt all sections carefully.