



Class 8 Mathematics – Worksheet 5

Chapter 1: Rational Numbers

Topic: Mixed Problems and Revision

Section A: Basic Concepts (1 Mark Each)

1. Write two rational numbers between:

a) $\frac{1}{3}$ and $\frac{2}{3}$

b) $-\frac{5}{7}$ and $-\frac{2}{7}$

2. Find the additive inverse of:

a) $-\frac{7}{12}$

b) $\frac{3}{10}$

3. Express in standard form:

a) $\frac{18}{-24}$

b) $-\frac{35}{40}$

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

a) $\frac{5}{8}$

b) $-\frac{11}{15}$

Section B: Operations (2 Marks Each)

1. Perform the following operations and simplify:

a) $(-\frac{5}{6}) + (\frac{7}{9})$

b) $\frac{14}{15} - (-\frac{11}{20})$

2. Multiply and simplify:

a) $-\frac{3}{7} \times \frac{5}{8}$

b) $\frac{12}{17} \times (-\frac{9}{11})$

3. Divide the following:

a) $\frac{25}{36} \div \frac{5}{6}$

b) $-\frac{16}{21} \div \frac{8}{9}$

Section C: Word Problems (3 Marks Each)

1. The cost of a pencil is $\frac{7}{10}$ of the cost of a pen. If a pen costs ₹50, find the cost of the pencil.

2. A rectangular plot has length $\frac{4}{5}$ km and width $\frac{2}{3}$ km. Find its area.

3. A bucket contains $\frac{3}{4}$ liters of water. $\frac{2}{5}$ of the water is used. How much water remains?

4. A pole is $\frac{11}{12}$ meters long. A part of it measuring $\frac{5}{6}$ meters is painted. How much of the pole remains unpainted?

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

1. A cloth of $\frac{5}{8}$ meters is cut into 3 equal pieces. Find the length of each piece.

2. The sum of three rational numbers is $\frac{7}{9}$. Two of them are $\frac{1}{3}$ and $-\frac{2}{5}$. Find the third rational number.

3. A ribbon is $\frac{9}{10}$ meters long. It is divided into 6 equal parts. Find the length of each part and represent it on the number line.

◆ End of Worksheet

👉 Practice well and attempt all sections carefully.

