

1. Find the reciprocal of the following rational numbers:

(a)  $\frac{6}{11}$

(b)  $\frac{5}{-9}$

2. Write two such rational numbers whose multiplicative inverse is same as they are.

3. What properties, the following expressions show?

$$\frac{2}{3} + \frac{4}{5} = \frac{4}{5} + \frac{2}{3}$$

4. What is the additive identity of rational numbers?

5. If  $a = \frac{1}{2}$ ,  $b = \frac{2}{3}$ , verify the following:

(a)  $a \times b = b \times a$

(b)  $a + b = b + a$

6. Find a rational number between  $\frac{1}{2}$  and  $\frac{1}{3}$ .

7. Calculate the following:

(a)  $\frac{-4}{5} \times \frac{3}{7} + \frac{4}{5} \times \frac{3}{7}$

(b) Represent the following rational numbers on number lines.

(a)  $\frac{-2}{3}$

(b)  $\frac{3}{4}$

(c)  $\frac{3}{2}$

(c) Find 7 rational numbers between  $\frac{1}{3}$  and  $\frac{1}{2}$ .