

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 $\frac{1}{2}$.