

MATHEMATICS UNIT: RATIONAL NUMBERS CLASS : 8

Name:

1) $5 + 0 = 5$

∴ Additive identity =

2) $\frac{1}{3} \times 1 = \frac{1}{3}$

∴ Multiplicative identity =

3) Additive inverse of 5 is -5

Additive inverse of $-\frac{3}{7}$ is -----

4) Multiplicative inverse of $\frac{4}{7}$ is $\frac{7}{4}$

Multiplicative inverse of $\frac{5}{9}$ is -----

5) $a \times b = b \times a$ ----- Commutative Property of multiplication

$(a + b) + c = a + (b + c)$ -----Associative property of addition

$a(b + c) = a.b + a.c$ -----Distributive property

$(\frac{3}{5} \times \frac{2}{7}) \times \frac{4}{5} = \frac{3}{5} \times (\frac{2}{7} \times \frac{4}{5})$ Name the Property—

6) Five rational numbers greater than -3 are -2,-1,0,1,2

Five rational numbers greater than -2 are , , , ,

7) Find 3 rational numbers between $\frac{1}{3}$ and $\frac{3}{5}$

LCM of 3 and 5 is 15

$$\frac{1}{3} \times \frac{5}{5} = \frac{5}{15}$$

$$\frac{3}{5} \times \frac{3}{3} = \frac{9}{15}$$

∴ 3 rational numbers between $\frac{1}{3}$ and $\frac{3}{5}$ are $\frac{6}{15}$, $\frac{7}{15}$, $\frac{8}{15}$

8) Find 5 rational numbers between $\frac{3}{7}$ and $\frac{5}{2}$

LCM of 7 and 2 is

$$\frac{3}{7} \times \text{---} = \text{---}$$

$$\frac{5}{2} \times \text{---} = \text{---}$$

∴ 5 rational numbers between $\frac{3}{7}$ and $\frac{5}{2}$ are , , , ,