Class-VIII Maths Assignment CH-1 Rational numbers

1. Fill in the Blanks

(i) The reciprocal of negative rational number is _____.

(ii) If a is reciprocal of b, the b is reciprocal of _____.

2. By what number should $-\frac{3}{4}$ be multiplied in order to produce $\frac{2}{3}$?

3. Divide the sum of $\frac{65}{12}$ and $\frac{12}{7}$ by their difference.

4. Find three rational numbers between -2 and 5.

5. Find ten rational numbers between $-\frac{2}{9}$ and $\frac{5}{9}$

6. Represent $\frac{-3}{4}$ and $\frac{1}{2}$ on same number line.

7. Simplify by using property (Suitable)

$-\frac{5}{4} \times \left(\frac{8}{5} + \frac{16}{5}\right)$

8. Name the Property.

$\frac{13}{-17} \times 1 = \frac{13}{-17} = 1 \times \frac{13}{-17}$

9. Find reciprocal of

(i) $\frac{-3}{8} \times \frac{-7}{13}$ (ii) $\frac{3}{4} + \frac{1}{6} - \frac{1}{3}$

10. Simplify : $\frac{3}{11} \times -\frac{-5}{6} \times \left(\frac{-22}{9}\right) \times \left(\frac{-9}{5}\right)$

11. By what number should we multiply $\frac{-8}{13}$ so that the product may be 24 ?

12. Verify associative property of addition and associative property of multiplication for $-\frac{2}{3}, \frac{5}{4}, \frac{7}{12}$

13.Verify commutative property of addition and commutative property of multiplication of $-\frac{4}{9}, \frac{2}{3}$.

14.Simplify using appropriate properties.

(i) $\frac{8}{9} \times \frac{4}{5} + \frac{5}{6} - \frac{9}{5} \times \frac{8}{9}$ (ii) $-\frac{2}{3} \times \frac{3}{5} + \frac{5}{2} - \frac{3}{5} \times \frac{1}{6}$ (iii) $\frac{5}{7} + \frac{2}{11} + \frac{8}{7} + \frac{6}{11}$

Answers

1) (i)-ve

(ii) a

2) $\frac{8}{-9}$

3) $\frac{599}{311}$

4) -1,0,1

5) $-\frac{19}{90}$, $-\frac{18}{90}$ …… any

6)

7) -6

8) '1' is multiplicative Identity

9) (i) $\frac{104}{21}$ (ii) $\frac{12}{7}$

10) -1

11) -39

14) (i) $-\frac{1}{18}$ (ii) 2 (iii) $\frac{199}{77}$