

INTERNATIONAL INDIAN SCHOOL
BURAIDAH

Worksheet For The Academic Year 2023-24

CLASS: VIII SUBJECT: Mathematics DATE: 14/05/2023
LESSON-1 Rational Numbers

1. Closure property is _____ for addition, subtraction and multiplication of rational numbers.
2. Commutative and Associative property is not true for _____ and _____ of rational numbers.
3. _____ is the multiplicative identity of a rational numbers.
4. $\frac{3}{4} + \frac{-3}{4} =$ _____.
5. The reciprocal of $\frac{-8}{17}$ is _____.
6. Simplify using suitable property:
 - I. $\frac{2}{3} \times \left(\frac{-4}{7} + \frac{1}{5} \right)$
 - II. $\frac{6}{7} \times \frac{49}{18} - \frac{7}{3} \times \frac{1}{49} + \frac{6}{7} \times \frac{1}{18}$
 - III. $\frac{2}{5} \times \frac{1}{6} - \frac{1}{12} + \frac{2}{5} \times \frac{2}{3}$
7. Multiply the additive inverse of $\frac{-3}{7}$ with the reciprocal of $\frac{6}{49}$.
8. Represent $\frac{-3}{5}$ and $\frac{9}{5}$ on a number line.
9. Find five rational numbers between $\frac{-1}{5}$ and $\frac{3}{8}$.
10. Find four rational numbers between $\frac{1}{4}$ and $\frac{2}{3}$.
11. Write 3 rational numbers greater than -3.
12. Write 5 rational numbers less than 5.
13. The multiplicative inverse is also called _____.
14. Simplify: $\frac{-3}{7} \times \frac{2}{5} \times \frac{1}{9} \times \frac{15}{16}$.
15. Evaluate: $\frac{3}{5} + \frac{-7}{9} + \frac{1}{10} + \frac{-11}{18}$

16. Name the properties used in the following:

I. $\frac{-3}{7} \times \left(\frac{2}{5} \times \frac{4}{9}\right) = \left(\frac{-3}{7} \times \frac{2}{5}\right) \times \frac{4}{9}$

II. $\frac{-13}{9} \times \frac{4}{7} = \frac{4}{7} \times \frac{-13}{9}$

III. $\frac{13}{7} \times \frac{7}{9} = \frac{13}{9}$

IV. $\frac{-2}{3} \times 1 = \frac{-2}{3}$

ANSWERS

4) 0	7) $\frac{7}{2}$
5) $\frac{17}{-8}$	14) $-\frac{1}{56}$
6) (i) $-\frac{26}{105}$	15) $-\frac{31}{45}$
(ii) $\frac{7}{3}$ (iii) $\frac{1}{4}$	