INTERNATIONAL INDIAN SCHOOL
BURAIDAH

Worksheet For The Academic Year 2024-25

CLASS: VIII SUBJECT: Mathematics DATE: 26/04/2024

LESSON-1 Rational Numbers

1) Rational numbers can be written in the form _____.
2) Rational numbers are not closed under _____.
3) 0 is a _____ number.
4) Commutative and Associative property are true for _____ and _____ of rational numbers.
5) _____ is the additive identity of rational numbers.
6) _____ is the multiplicative identity of rational numbers.
7) The additive inverse of $\frac{4}{5}$ is _____.
8) The multiplicative inverse of a negative rational number is always _____.
9) If $^{p}/_{q}$ is a rational number , q can never be _____.
10) Between any two rational numbers there exist _____ no.of rational numbers.
11) The product of a rational number and its reciprocal is _____.
12) Add $\frac{1}{6}, \frac{5}{7}$ and $\frac{-2}{3}$.
13) Subtract $\frac{-3}{7}$ from $\frac{-2}{5}$.
14) Simplify using suitable property:

a) $\frac{4}{5} \times \frac{3}{9} + \frac{2}{3} \times \frac{4}{5} - \frac{1}{5}$

b)) $\frac{6}{9} \times \frac{3}{4} + \frac{6}{9} \times \frac{5}{7}$

c)) $\frac{4}{7} \times \frac{21}{3} + \frac{4}{7} \times \frac{24}{3}$

15) Write 5 rational numbers between $\frac{5}{6}$ and $\frac{6}{7}$.
16) Multiply $\frac{-3}{4}$ by the reciprocal of $\frac{2}{3}$.
17) Write the properties used:

a)) $\frac{2}{3} \times \frac{-3}{5} = \frac{-3}{5} \times \frac{2}{3}$ b) $\frac{5}{7} + 0 = \frac{5}{7}$

c) $\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$ d) $\frac{1}{2} + (\frac{4}{7} + \frac{-3}{2}) = (\frac{1}{2} + \frac{4}{7}) + \frac{-3}{2}$

ANSWERS

7) $\frac{-4}{5}$ 12) $\frac{9}{42}$ 13) $\frac{-29}{35}$ 14) a) $\frac{3}{5}$ b) $\frac{41}{42}$ c) $\frac{-4}{7}$ 16) $\frac{-9}{8}$