

INDIAN SCHOOL NIZWA
MATHEMATICS WORKSHEET
CH-1: RATIONAL NUMBERS

DATE: _____

NAME: _____

CLASS: VIII

1. Locate the points on a number line

$$\frac{4}{7}, \frac{10}{7}, \frac{-3}{7}, \frac{-12}{7}, 1$$

2. Simplify a) $\left(\frac{8}{5} \times \frac{-3}{2}\right) - \left(\frac{-3}{16} \times \frac{-11}{10}\right)$

b) $\frac{2}{5} \div \left(\frac{-4}{5} \div \frac{3}{10}\right)$

c) $\left(\frac{1}{3} \div \frac{1}{2}\right) + \frac{5}{6}$

3. Insert 10 rational numbers between $\frac{-7}{8}$ and $\frac{11}{8}$.

4. Solve using appropriate property $\frac{2}{5} + \left[\frac{-5}{9}\right] + \frac{9}{10} + \frac{5}{7}$

5. The additive inverse of $\frac{-3}{7}$ _____

6. The reciprocal of $\frac{p}{q}$ is _____

7. Insert $<$ or $>$ $\frac{-3}{7}$ _____ $\frac{-4}{10}$ [use cross multiplication method]

8. The standard form or simplest form of $\frac{-17}{51}$ is _____.

9. $\frac{6}{5} - \left[\frac{-5}{6}\right]$ _____ $\left[\frac{-5}{6}\right] - \frac{6}{5}$ [put = or $\neq$]

10. Associative property under multiplication of rational numbers will be [satisfied / not satisfied]

11. _____ is called the multiplicative identity.

12. The multiplicative inverse of $\frac{-3}{4} \times \frac{-5}{6}$ is _____

13. The additive inverse of a rational number $\frac{a}{b}$ is _____

14. If a and b are two rational numbers, then _____ is a rational number between a and b.

15. $3 \div 0 =$ _____

HOTS

1. Subtract the additive inverse of $\frac{5}{6}$ from the multiplicative inverse of $\frac{-5}{7} \times \frac{14}{15}$