

Chapter-1 Rational Numbers

WORKSHEET-2/2

1. Write True/False

i) Reciprocal of $\frac{-3}{8}$ is $\frac{8}{3}$.

ii) $\frac{1}{2} \div \frac{-3}{4} = -\frac{2}{3}$

iii) If $\frac{a}{b} \div \frac{c}{d} = 1$ then $\frac{a}{b} = \frac{c}{d}$

iv) The reciprocal 0 is -0 .

2. Choose the correct answer.

i) The reciprocal of $\frac{5}{7}$

a) $\frac{-5}{7}$ b) $\frac{-7}{5}$ c) $\frac{7}{5}$ d) $\frac{5}{12}$

ii) The additive inverse $\frac{-3}{8}$ is

a) $\frac{-3}{8}$ b) $\frac{3}{8}$ c) $\frac{-8}{3}$ d) $\frac{8}{3}$

iii) The number of rational numbers between two rational numbers is/are

a) Finite b) Infinite c) 0 d) Can't say

iv) What number should be added to $\frac{-3}{4}$ to get $\frac{7}{6}$

a) $\frac{11}{24}$ b) $\frac{10}{25}$ c) $\frac{23}{12}$ d) $\frac{9}{24}$

3. Find four rational numbers between $\frac{2}{3}$ and $\frac{5}{6}$.

4. Find 5 rational numbers between 3 and 4.

5. Represent the following rational numbers in the number line.

a) $\frac{-2}{3}$ b) $\frac{5}{3}$ c) $\frac{1}{2}$ d) $\frac{4}{6}$

6. Let a, b and c be three rational numbers where $a = \frac{2}{3}$, $b = \frac{4}{5}$ and $c = -\frac{5}{6}$

then verify

a) $a(b + c) = ab + ac$

b) $a \times (b \times c) = (a \times b) \times c$