

## Isaac Newton Global School

Name : \_\_\_\_\_ Roll No.: \_\_\_\_\_ Date : \_\_\_\_\_

Subject: Math

Chapter:1. Rational numbers- Worksheet

Grade: VIII

Q1. Using appropriate properties find:

a.  $\frac{4}{5} \times \frac{-3}{7} - \frac{1}{14} - \frac{3}{7} \times \frac{6}{5}$

b.  $-\frac{2}{3} \times \frac{6}{15} + \frac{7}{3} - \frac{6}{15} \times \frac{1}{6}$

Q2. Write the additive inverse of each of the following.

a.  $\frac{1}{9}$

b.  $\frac{-3}{11}$

c.  $\frac{3}{-19}$

d.  $\frac{2}{-17}$

Q3. Write the multiplicative inverse of each of the following.

a. 1

b.  $\frac{-9}{8}$

c.  $\frac{-3}{-8}$

d.  $\frac{4}{5} \times \frac{-2}{3}$

Q4. Write the property under multiplication used in each of the following.

a.  $\frac{3}{7} \times \frac{-4}{9} = \frac{-4}{9} \times \frac{3}{7}$

b.  $\frac{1}{11} \times \frac{11}{1} = 1$

c.  $\frac{5}{7} \times \left(\frac{1}{4} \times \frac{1}{3}\right) = \left(\frac{5}{7} \times \frac{1}{4}\right) \times \frac{1}{3}$

Q5. Verify  $-(-x)$  is same as  $x$  for

a.  $x = \frac{-21}{32}$

b.  $x = \frac{14}{19}$

Q6. Multiply  $\frac{-8}{15}$  by the reciprocal of  $\frac{-2}{45}$

Q7. Find the product of the reciprocals of -6 and  $\frac{-141}{18}$

Q8. Is  $\frac{-7}{8}$  the multiplicative inverse of  $-1\frac{1}{8}$

Q9. Represent the following rational numbers on the number line.

a.  $\frac{5}{2}$

b.  $\frac{2}{3}$

c.  $\frac{-2}{3}$

d.  $\frac{-11}{6}$

Q10. Represent the following rational numbers on same the number line:

a.  $\frac{-9}{5}$

b.  $\frac{3}{5}$

c.  $\frac{8}{5}$

Q11. Find three rational numbers between  $\frac{1}{3}$  and  $\frac{5}{6}$

Q12. Find three rational numbers between  $\frac{-4}{5}$  and  $\frac{-6}{7}$