

PUBLIC SCHOOL DARBHANGA

SESSION (2020-21) CLASS-VIII MATHEMATICS Topic : Rational numbers Revision

Q1.Using appropriate properties find :

(i) $\frac{-2}{3}x\frac{3}{5} + \frac{5}{2} - \frac{3}{5}x\frac{5}{2}x\frac{1}{6}$

(ii) $\frac{2}{5} \times (-\frac{3}{7}) - \frac{1}{6} \times \frac{3}{2} + \frac{1}{14} \times \frac{2}{5}$

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

- (i) $\frac{2}{8}$ (ii) $\frac{-5}{9}$ (iii) $\frac{-6}{-5}$ (iv) $\frac{2}{-9}$ (v) $\frac{19}{-6}$
- Q3. Verify that : -(- X) = X for. (i) $X = \frac{11}{15}$ (ii) $\frac{-13}{17}$

Q4. Find the multiplicative inverse of the following:

(i)-13 (ii) $\frac{-13}{19}$ (iii) $\frac{1}{5}$ (iv) $-\frac{5}{8} \times \frac{-3}{7}$

(v)-1 x
$$\frac{-3}{7}$$

(vi) -1

Q5. Name the property under multiplication used in each of the following.

(i)
$$\frac{-4}{5} \ge 1 = 1 \ge \frac{-4}{5} = \frac{-4}{5}$$

(ii) - 13/17 x -2/7 = -2/7 x -13/17 (iii) -19/29 x 29/-19 = 1

Q6. Multiply 6/13 by the reciprocal of -7/16.

Q7.Tell what property allows you to compute

1/3 x 6 x 4/3 as 1/3 x 6 x 4/3

Q8. Is 8/9 the multiplicative inverse of $-1\frac{1}{8}$? why or why not ? Q9.Is 0.3 the multiplicative inverse of $3\frac{1}{3}$? why or why not? Q10. Write.

- (i) The rational number that does not have a reciprocal.
- (ii) The rational numbers that are equal to their reciprocals.
- (iii) The rational number that is equal to its negative.

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Q11.Fill in the blanks.
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(i)Zero has reciprocal.

(ii)The numbers_____and____are their own reciprocals

(iii)The reciprocal of – 5 is_____.

(iv)Reciprocal of $1/\underline{x}$, where $x \neq 0$ is_____.

(v)The product of two rational numbers is always a_____.

(vi)The reciprocal of a positive rational number is_____.