

GRADE -8 QUESTION BANK SUB: MATHEMATICS

CH-2 – Operations with rational numbers

- 1. Find $\frac{3}{7} + \left(\frac{-6}{11}\right) + \left(\frac{-8}{21}\right) + \frac{5}{22}$
- 2. Find $\frac{-4}{5} \times \frac{3}{7} \times \frac{15}{16} \times \left(\frac{-14}{9}\right)$

3. Find using distributive property: (i)
$$\left\{\frac{7}{5} \times \left(\frac{-3}{12}\right)\right\} + \left\{\frac{7}{5} \times \frac{5}{12}\right\}$$
 (ii) $\left\{\frac{9}{16} \times \frac{4}{12}\right\} + \left\{\frac{9}{16} \times \frac{-3}{9}\right\}$

4. Find $\frac{2}{5} \times \frac{-3}{7} - \frac{1}{14} - \frac{3}{7} \times \frac{3}{5}$ 5. Simplify: $\frac{-4}{5} \times \frac{3}{7} \times \frac{15}{16} \times \left(\frac{-14}{9}\right)$

6.Verify the property -(-x) = x in each of the following.

a) $X = \frac{-7}{11}$ b) $X = \frac{17}{-19}$

7. Multiply $\frac{2}{7}$ by the reciprocal of $\frac{-3}{8}$

8. Which property will you use to simplify $\frac{-2}{5}$ × (3 × $\frac{2}{3}$) as $\left[\left(-\frac{2}{5} \times 3\right] \times \frac{2}{3}\right]$

9.Write:

i)The rational number whose reciprocal is the number itself.

ii) The rational number whose reciprocal is not defined.

iii)The numberhas no reciprocal

iv)The reciprocal of -1 $\frac{2}{7}$ is

v)is not associative for rational numbers.

Vi) The rational number ($\frac{-4}{5}$) lies on theside of zero on the number line.

10. Find any seven rational number between the ollowing:

a)
$$\frac{-3}{5}$$
 and $\frac{1}{3}$ b) $\frac{-2}{3}$ and $\frac{3}{4}$

11. Represent the following rational numbers on a number line:

i)
$$\frac{-3}{5}$$
 , $\frac{-13}{5}\frac{4}{5}$