

Rational Numbers

Date: 10/09/24

<1> Find the sum of :-

i) $\frac{7}{-12}$ and $\frac{9}{20}$

ii) $-\frac{2}{8}$ and $-1\frac{1}{4}$

<2> Find the difference -

i) Subtract $-\frac{6}{21}$ from $\frac{5}{63}$

ii) Subtract $-1\frac{5}{6}$ from $3\frac{1}{8}$.

<3> Find the product of -

i) $-\frac{105}{128} \times (-1\frac{29}{35})$

ii) $\frac{8}{35} \times (\frac{21}{-32})$

<4> Find the value of -

i) $\frac{3}{7} \div (\frac{21}{-55})$

ii) $(-2\frac{1}{3}) \div 2\frac{11}{12}$

<5> Simplify :-

i) $\frac{13}{11} \times (-\frac{14}{5}) + \frac{13}{11} \times (-\frac{7}{5}) + (-\frac{13}{11}) \times \frac{34}{5}$

$$\textcircled{ii} \left(-\frac{3}{2} \times \frac{4}{5} \right) + \left(\frac{9}{5} \times \frac{-10}{3} \right) + \left(\frac{1}{2} \times \frac{3}{4} \right)$$

<6> Answer the following: (HOTS)

① What should be added to $\left(-\frac{1}{2} - \frac{3}{4} \right)$ of $-\frac{8}{15}$ so the sum is the product of $\left(-\frac{7}{50} \right)$ and $\left(1\frac{1}{4} \right)$?

② Find the multiplicative inverse of the following:-

$$\left(-5 \times \frac{12}{15} \right) - \left(-3 \times \frac{2}{9} \right)$$