Worksheet (Class 7)

Subject - Mathematics

Topic - Rational Numbers

If $\dfrac{-5}{7} = \dfrac{x}{28}$, find the value of x.

Give three rational numbers equivalent to:

(i) $\dfrac{-3}{4}$ (ii) $\dfrac{7}{11}$

Write the next three rational numbers to complete the pattern:

(i) $\dfrac{4}{-5}, \dfrac{8}{-10}, \dfrac{12}{-15}, \dfrac{16}{-20}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}.$

(ii) $\dfrac{-8}{7}, \dfrac{-16}{14}, \dfrac{-24}{21}, \dfrac{-32}{28}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}.$

List four rational numbers between $\dfrac{5}{7}$ and $\dfrac{7}{8}$.

Find the sum of

(i) $\dfrac{8}{13}$ and $\dfrac{3}{11}$ (ii) $\dfrac{7}{3}$ and $\dfrac{-4}{3}$

Solve:

(i) $\dfrac{29}{4} - \dfrac{30}{7}$ (ii) $\dfrac{5}{13} - \dfrac{-8}{26}$

Find the product of:

(i) $\dfrac{-4}{5}$ and $\dfrac{-5}{12}$ (ii) $\dfrac{-22}{11}$ and $\dfrac{-21}{11}$

Simplify:

(i) $\dfrac{13}{11} \times \dfrac{-14}{5} + \dfrac{13}{11} \times \dfrac{-7}{5} + \dfrac{-13}{11} \times \dfrac{34}{5}$ (ii) $\dfrac{6}{5} \times \dfrac{3}{7} - \dfrac{1}{5} \times \dfrac{3}{7}$

Simplify:

(i) $\dfrac{3}{7} \div \left(\dfrac{21}{-55} \right)$ (ii) $1 \div \left(-\dfrac{1}{2} \right)$

Which is greater in the following?

(i) $\dfrac{3}{4}, \dfrac{7}{8}$ (ii) $-3\dfrac{5}{7}, 3\dfrac{1}{9}$

Write a rational number in which the numerator is less than '-7×11' and the denominator is greater than '$12 + 4$'.

If $x = \dfrac{1}{10}$ and $y = \dfrac{-3}{8}$, then

evaluate $x + y$, $x - y$, $x \times y$ and $x \div y$.