



Concept_CW_G8_Multiplication and Division of Rational Numbers

1. Multiply the rational numbers:

(i) $-\frac{5}{17}$ by $\frac{51}{-60}$

(ii) $-\frac{6}{11}$ by $-\frac{55}{36}$

(iii) $-\frac{8}{25}$ by $-\frac{5}{16}$

(iv) $\frac{6}{7}$ by $-\frac{49}{36}$

2. Fill in the blanks:

(i) $(-\frac{23}{17}) \times \frac{18}{35} = \frac{18}{35} \times (\rule{1cm}{0.4pt})$

(ii) $-38 \times (-\frac{7}{19}) = (-\frac{7}{19}) \times (\rule{1cm}{0.4pt})$

(iii) $\{\frac{15}{7} \times -\frac{21}{10}\} \times (-\frac{5}{6}) = (\rule{1cm}{0.4pt}) \times \{(-\frac{21}{10}) \times (-\frac{5}{6})\}$

(iv) $(-\frac{12}{5}) \times \{\frac{4}{15} \times \frac{25}{-16}\} = \{(-\frac{12}{5}) \times (\frac{4}{15})\} \times (\rule{1cm}{0.4pt})$

3. Divide the rationals:

(i) 1 by $\frac{1}{2}$

(ii) 5 by $-\frac{5}{7}$

(iii) $-\frac{3}{4}$ by $\frac{9}{-16}$

(iv) $-\frac{7}{8}$ by $-\frac{21}{16}$

4. Verify whether the given statement is true or false:

(i) $\frac{2}{9} \div \frac{5}{11} = \frac{7}{9} \div \frac{6}{13}$

(ii) $\frac{13}{5} \div \frac{26}{10} = \frac{26}{10} \div \frac{13}{5}$

(iii) $-9 \div \frac{3}{4} = \frac{3}{4} \div (-9)$

(iv) $-\frac{8}{9} \div -\frac{4}{3} = -\frac{4}{3} \div (-\frac{8}{9})$