



Rational Numbers Ex 1.7 Q1

**Answer :**

$$(i) \quad 1 \div \frac{1}{2} = 1 \times \frac{2}{1} = 2$$

$$(ii) \quad 5 \div \frac{-5}{7} = 5 \times \frac{7}{-5} = -7$$

$$(iii) \quad \frac{-3}{4} \div \frac{9}{-16} = \frac{-3}{4} \times \frac{-16}{9} = \frac{4}{3}$$

$$(iv) \quad \frac{-7}{8} \div \frac{-21}{16} = \frac{-7}{8} \times \frac{16}{-21} = \frac{2}{3}$$

$$(v) \quad \frac{7}{-4} \div \frac{63}{64} = \frac{7}{-4} \times \frac{64}{63} = \frac{-16}{9}$$

$$(vi) \quad 0 \div \frac{-7}{5} = 0 \times \frac{5}{-7} = 0$$

$$(vii) \quad \frac{-3}{4} \div -6 = \frac{-3}{4} \times \frac{1}{-6} = \frac{1}{8}$$

$$(viii) \quad \frac{2}{3} \div \frac{-7}{12} = \frac{2}{3} \times \frac{12}{-7} = \frac{-8}{7}$$

$$(ix) \quad -4 \div \frac{-3}{5} = -4 \times \frac{5}{-3} = \frac{20}{3}$$

$$(x) \quad \frac{-3}{13} \div \frac{-4}{65} = \frac{-3}{13} \times \frac{65}{-4} = \frac{15}{4}$$

Rational Numbers Ex 1.7 Q2

**Answer :**

$$(i) \quad \frac{2}{5} \div \frac{26}{15} = \frac{2}{5} \times \frac{15}{26} = \frac{3}{13}$$

$$(ii) \quad \frac{10}{3} \div \frac{-35}{12} = \frac{10}{3} \times \frac{12}{-35} = \frac{-8}{7}$$

$$(iii) \quad -6 \div \frac{-8}{17} = -6 \times \frac{17}{-8} = \frac{51}{4}$$

$$(iv) \quad \frac{-40}{99} \div (-20) = \frac{-40}{99} \times \frac{1}{-20} = \frac{2}{99}$$

$$(v) \quad \frac{-22}{27} \div \frac{-110}{18} = \frac{-22}{27} \times \frac{18}{-110} = \frac{2}{15}$$

$$(vi) \quad \frac{-36}{125} \div \frac{-3}{75} = \frac{-36}{125} \times \frac{75}{-3} = \frac{36}{5}$$

Rational Numbers Ex 1.7 Q3

**Answer :**

Let the other number be  $x$ .

$$\therefore x \times (-10) = 15$$

$$\text{or } x = \frac{15}{-10} = \frac{3}{-2}$$

So, the other number is  $\frac{-3}{2}$ .

Rational Numbers Ex 1.7 Q4

**Answer :**

Let the other number be  $x$ .

$$\therefore x \times \frac{-4}{15} = \frac{-8}{9}$$

$$\text{or } x = \frac{-8}{9} \div \frac{-4}{15}$$

$$\text{or } x = \frac{-8}{9} \times \frac{15}{-4}$$

$$\text{or } x = \frac{10}{3}$$

Thus, the other number is  $\frac{10}{3}$ .

\*\*\*\*\*END\*\*\*\*\*