



Rational Numbers Ex 1.5 Q1

Answer :

(i)

$$\frac{7}{11} \times \frac{5}{4} = \frac{7 \times 5}{11 \times 4} = \frac{35}{44}$$

(ii)

$$\frac{5}{7} \times \frac{-3}{4} = \frac{5 \times (-3)}{7 \times 4} = \frac{-15}{28}$$

(iii)

$$\frac{-2}{9} \times \frac{5}{11} = \frac{(-2) \times 5}{9 \times 11} = \frac{-10}{99}$$

(iv)

$$\frac{-3}{17} \times \frac{-5}{-4} = \frac{(-3) \times (-5)}{17 \times (-4)} = \frac{15}{-68}$$

(v)

$$\frac{9}{-7} \times \frac{36}{-11} = \frac{9 \times 36}{(-7) \times (-11)} = \frac{324}{77}$$

(vi)

$$\frac{-11}{13} \times \frac{-21}{7} = \frac{(-11) \times (-21)}{13 \times 7} = \frac{231}{91} = \frac{33}{13}$$

(vii)

$$\frac{-3}{5} \times \frac{-4}{7} = \frac{(-3) \times (-4)}{5 \times 7} = \frac{12}{35}$$

(viii)

$$\frac{-15}{11} \times 7 = \frac{-15}{11} \times \frac{7}{1} = \frac{(-15) \times 7}{11 \times 1} = \frac{-105}{11}$$

Rational Numbers Ex 1.5 Q2

Answer :

(i)

$$\frac{-5}{17} \times \frac{51}{-60} = \frac{-5}{17} \times \frac{3 \times 17}{-5 \times 3 \times 4} = \frac{-5 \times 3 \times 17}{-17 \times 5 \times 3 \times 4} = \frac{1}{4}$$

(ii)

$$\frac{-6}{11} \times \frac{-55}{36} = \frac{-6}{11} \times \frac{-5 \times 11}{6 \times 6} = \frac{5}{6}$$

(iii)

$$\frac{-8}{25} \times \frac{-5}{16} = \frac{-1}{5 \times 5} \times \frac{-5}{2} = \frac{1}{10}$$

(iv)

$$\frac{6}{7} \times \frac{-49}{36} = \frac{6}{7} \times \frac{-7 \times 7}{6 \times 6} = \frac{-7}{6}$$

(v)

$$\frac{8}{-9} \times \frac{-7}{-16} = \frac{1}{-9} \times \frac{-7}{-2} = \frac{-7}{18}$$

(vi)

$$\frac{-8}{9} \times \frac{3}{64} = \frac{-8}{3 \times 3} \times \frac{3}{8 \times 8} = \frac{-1}{24}$$

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