

Rational Numbers Ex 1.7 Q5

Answer:

Let the number be x.

$$x \times \frac{-1}{6} = \frac{-23}{9}$$

$$\mathbf{x} = \frac{-23}{9} \div \frac{-1}{6}$$

$$\mathbf{x} = \frac{-23}{9} \times \frac{6}{-1} = \frac{46}{3}$$

Therefore, the other number is $\frac{46}{3}$.

Rational Numbers Ex 1.7 Q6

Answer:

Let the other number be x.

$$x \times \frac{-15}{28} = \frac{-5}{7}$$

or
$$\mathbf{x} = \frac{-5}{7} \div \frac{-15}{28}$$

or
$$x = \frac{-5}{7} \times \frac{28}{-15}$$

or
$$x = \frac{4}{3}$$

Thus, the other number is $\frac{4}{3}$.

Rational Numbers Ex 1.7 Q7

Answer:

Let the number be x.

$$x \times \frac{-8}{13} = 24$$

or
$$x = 24 \div \frac{-8}{13}$$

or
$$x = 24 \times \frac{13}{-8}$$

or
$$x = -39$$

Thus, the number is -39.

Rational Numbers Ex 1.7 Q8

Answer:

Let the other number that should be multiplied with $\frac{-3}{4}$ to produce $\frac{2}{3}$ be x.

$$\therefore \mathbf{x} \times \frac{-3}{4} = \frac{2}{3}$$

or
$$x = \frac{2}{3} \div \frac{-3}{4}$$

or
$$x = \frac{2}{3} \times \frac{4}{-3}$$

or
$$x = \frac{-8}{9}$$

Thus, the number is $\frac{-8}{9}$.

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