# Operations with Rational Numbers

Set of rational numbers:  $Q = \{\frac{a}{b} | a, b \in I, b \neq 0\}$ 

#### Addition and Subtraction

To add or subtract rationals, you need to find a common denominator.

#### Division

To divide by a rational number, multiply by the reciprocal.

$$\frac{a}{b} \div \frac{c}{d} = \frac{a}{b} \times \frac{d}{c}$$

$$= \frac{ad}{bc}$$

# Example 1

Simplify  $\frac{-2}{5} + \frac{3}{-2} - \frac{3}{10}$ .

#### Solution

$$\frac{-2}{5} + \frac{3}{-2} - \frac{3}{10} = \frac{-4}{10} + \frac{-15}{10} - \frac{3}{10}$$

$$= \frac{-4 - 15 - 3}{10}$$

$$= \frac{-22}{10}$$

$$= \frac{-11}{5} \text{ or } -2\frac{1}{5}$$

## Multiplication

 $\frac{d}{b} \times \frac{c}{d} = \frac{dc}{bd}$ , but first reduce to lowest terms where possible.

# More Than One Operation

Follow the order of operations.

# Example 2

Simplify  $\frac{3}{4} \times \frac{-4}{5} \div \frac{-3}{7}$ .

## Solution

$$\frac{\frac{3}{4} \times \frac{-4}{5} \div \frac{-3}{7} = \frac{3}{4} \times \frac{-4}{5} \times \frac{-7}{3}}{=\frac{\frac{1}{4}}{1} \times \frac{-\frac{7}{4}}{5} \times \frac{-7}{\frac{7}{3}}}$$
$$=\frac{\frac{7}{5} \text{ or } 1\frac{2}{5}}{=\frac{7}{5} \text{ or } 1\frac{2}{5}}$$

# Practise

#### Evaluate

(a) 
$$\frac{1}{4} + \frac{-3}{4}$$

**(b)** 
$$\frac{1}{2} - \frac{-2}{3}$$

(c) 
$$\frac{-3}{4} - \frac{1}{-4}$$
 (d)  $\frac{-3}{5} + \frac{3}{-4}$ 

(d) 
$$\frac{-3}{5} + \frac{3}{-4}$$

(e) 
$$\frac{-1}{4} - 1\frac{1}{3}$$

(e) 
$$\frac{-1}{4} - 1\frac{1}{3}$$
 (f)  $-8\frac{1}{4} - \frac{-1}{-3}$ 

(g) 
$$\frac{2}{-3} - 1\frac{5}{6}$$
 (h)  $\frac{5}{-6} - 2\frac{1}{3}$ 

(h) 
$$\frac{5}{-6} - 2\frac{1}{3}$$

(i) 
$$\frac{-3}{5} + \frac{-3}{4} - \frac{7}{10}$$
 (j)  $\frac{2}{3} - \frac{-1}{2} - \frac{1}{-6}$ 

## 2. Evaluate

(a) 
$$\frac{4}{5} \times \frac{-20}{25}$$

(b) 
$$\frac{3}{-2} \times \frac{6}{5}$$

(c) 
$$\left(\frac{-1}{3}\right)\left(\frac{2}{-5}\right)$$

(d) 
$$(\frac{9}{4})(\frac{-2}{-3})$$

(e) 
$$\left(\frac{1}{-2}\right)\left(\frac{-2}{5}\right)$$

(f) 
$$\frac{-4}{5} \times \frac{10}{-4}$$

**(g)** 
$$\left(\frac{-5}{12}\right)(-24)$$

**(h)** 
$$\left(-2\frac{1}{4}\right)\left(\frac{2}{-9}\right)$$

(i) 
$$\left(-1\frac{1}{10}\right)\left(3\frac{1}{11}\right)$$

(j) 
$$-4\frac{1}{6} \times -7\frac{3}{4}$$

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