

# Simplifying Expressions

## Example:

Simplify  $a \times 2 \times b$ .

Answer:  $2ab$

## Work out these problems:

1. Simplify these expressions.

**a**  $15f - 8f - 3f$

**g**  $5 \div n$

**m**  $6k - 5k$

**b**  $8a + 2a - 7a$

**h**  $y \div 3$

**n**  $4c + 2c - 6c$

**c**  $12g - 5g + 2g$

**i**  $c + c$

**o**  $10a - 8a$

**d**  $7b + 9b - 4b$

**j**  $z \times 1$

**p**  $5c - 3c + c$

**e**  $10h - 6h + 8h$

**k**  $g \times 9$

**q**  $3w + 6w$

**f**  $3c + 2c + 5c$

**l**  $7f - 2f - f$

2. Simplify these expressions.

**a**  $5g \times 2g$

**c**  $3 \times 6q$

**e**  $z \times 2 \times y$

**b**  $y \times \frac{1}{2} \times y$

**d**  $\frac{2}{5} \times k \times j$

**f**  $w \times v \div 4u$

3. Simplify these expressions.

**a**  $4c - 3 + c^2 - 8c + 1$

**d**  $3 + 6d - 3d + 1$

**b**  $3i^2 + 4i - 2i^2 - 2i$

**e**  $3c + 5b - 3c + b$

**c**  $2 + 7u - 1 + 2u$

**f**  $4w + x - 3w$

4. Simplify these expressions.

**a**  $\frac{25}{f} - \frac{13}{f}$

**e**  $\frac{4a}{7} + \frac{3a}{7}$

**b**  $\frac{5}{c} + \frac{3}{c}$

**f**  $\frac{n}{6} - \frac{m}{6}$

**c**  $\frac{k}{7} - \frac{j}{7}$

**g**  $\frac{7}{a} - \frac{3}{a}$

**d**  $\frac{15}{g} - \frac{8}{g}$

**h**  $\frac{3b}{5} + \frac{2b}{5}$

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**i**  $\frac{f}{5} + \frac{g}{5}$

**k**  $\frac{c}{4} + \frac{2c}{4}$

**j**  $\frac{8}{b} + \frac{2}{b}$

**l**  $\frac{c}{3} + \frac{b}{3}$

**5.** Simplify these expressions.

**a**  $\frac{2f}{5} - \frac{f}{6}$

**g**  $\frac{a}{6} + \frac{4a}{9}$

**b**  $\frac{c}{3} + \frac{3c}{4}$

**h**  $\frac{3k}{2} - \frac{k}{3}$

**c**  $\frac{4n}{5} - \frac{n}{10}$

**i**  $\frac{b}{3} + \frac{2b}{9}$

**d**  $\frac{7g}{10} - \frac{2g}{15}$

**j**  $\frac{b}{3} + \frac{4b}{5}$

**e**  $\frac{2j}{5} - \frac{j}{6}$

**k**  $\frac{5m}{4} - \frac{m}{8}$

**f**  $\frac{a}{2} + \frac{5a}{8}$

**l**  $\frac{c}{3} + \frac{5c}{6}$

