

## Chapitre 7 : Expression littérale

### Savoir faire 1 : Utiliser une expression littérale

**Exercice 1 :**

Recopie les expressions en supprimant les signes  $\times$  s'ils sont inutiles.

$$\begin{array}{ll} A = 9n & B = 3x \\ C = 12(7 - 3) & D = 4(3,2 + 6) \\ E = nx & F = 2\pi R \\ G = (3 + 6)(7 - 1) & H = 16 \times 3,5 \end{array}$$

**Exercice 2 :**

Simplifier les expressions suivantes.

$$\begin{array}{ll} A = 6a + b & B = 4bf \\ C = 5(9 + c^2) & D = 4d + 4a \end{array}$$

**Exercice 3 :**

Ecrire le plus simplement possible chaque expression.

$$\begin{array}{ll} A = 3ab & B = 3a + 5b \\ C = 16a & D = 5 + 3b \\ E = 5a + 5 & F = 6ac \end{array}$$

**Exercice 4 :**

Recopie les expressions en ajoutant les signes  $\times$  lorsqu'ils sont sous-entendus.

$$\begin{array}{ll} A = 3 \times x + 2 & B = a \times b - 4 \\ C = 5 \times (2 \times x - 7 \times y) & D = 2 \times a \times (2 + 8) \\ E = 3 \times a - 5 \times b & F = a \times b + 3 \times 7 \times a \\ G = b - a + 7 \times (3 \times x + 7) & \\ H = a + a - 7 \times b + 1 & \end{array}$$

**Exercice 5 :**

Réduire les expressions suivantes.

$$\begin{array}{l} A = 7x + 4y \\ B = 9x + 9 \\ C = 14t - 5 \\ D = 7a + 41 \end{array}$$

**Exercice 6 :**

Réduire les expressions suivantes.

$$\begin{array}{l} A = 7a + 2b + 4 \\ B = 4x + 2y \\ C = 11a + 5b - 3c + 4 \end{array}$$

**Exercice 7 :**

Réduire les expressions suivantes.

$$\begin{array}{l} A = -5x^2 + 8x + 24 \\ B = 7x^2 + 11x + 8 \\ C = 7x^2 + x + 18 \\ D = 4x^2 + 10x - 2 \end{array}$$

**Exercice 8 :**

Développer chaque expression.

$$\begin{array}{l} A = 6 \times (9 + x) = 6 \times 9 + 6 \times x = 54 + 6x \\ B = 2,5 \times (a - 4) = 2,5 \times a - 2,5 \times 4 = 2,5a - 10 \\ C = 8(6,1 + x) = 8 \times 6,1 + 8 \times x = 48,8 + 8x \\ D = 12(x - 3) = 12 \times x - 12 \times 3 = 12x - 36 \end{array}$$

**Exercice 9 :**

Développer chaque expression.

$$\begin{array}{l} A = 8 \times (x + 7) = 8 \times x + 8 \times 7 = 8x + 56 \\ B = 9 \times (5 - m) = 9 \times 5 - 9 \times m = 45 - 9m \\ C = 7(x + 2) = 7 \times x + 7 \times 2 = 7x + 14 \\ D = 9(7 - x) = 9 \times 7 - 9 \times x = 63 - 9x \end{array}$$

**Exercice 10 :**

Développer chaque expression.

$$\begin{array}{l} A = 3(x + 8) = 3 \times x + 3 \times 8 = 3x + 24 \\ B = 7(6,2 - p) = 7 \times 6,2 - 7 \times p = 43,4 - 7p \\ C = 1,3(10 - x) = 1,3 \times 10 - 1,3 \times x = 13 - 1,3x \\ D = 100(0,52 + b) = 100 \times 0,52 + 100 \times b = 52 + 100b \end{array}$$

**Exercice 11 :**

$$A = 4x + 2x$$

$$C = 6x$$

$$D = 7x - x$$

$$E = 4 + 2x$$

$$J = x + 2 + x + 2$$

$$G = 3x + 5x$$

$$I = 2x + 8 + 6x - 8$$

$$H = 2x \times 4x$$

$$F = 8x^2$$

$$B = 6x^2$$