

**Corrigé de l'exercice 1**

Développer et réduire chacune des expressions littérales suivantes :

$$A = 6 \times 4x$$

$$A = 6 \times 4 \times x$$

$$A = 24x$$

$$B = 2x \times 9$$

$$B = 2 \times x \times 9$$

$$B = 2 \times 9 \times x$$

$$B = 18x$$

$$C = (5x + 10) \times 10 + 4x$$

$$C = 5x \times 10 + 10 \times 10 + 4x$$

$$C = 5 \times x \times 10 + 100 + 4x$$

$$C = 5 \times 10 \times x + 4x + 100$$

$$C = 50x + 4x + 100$$

$$C = (50 + 4)x + 100$$

$$C = 54x + 100$$

$$D = (-7x - 4) \times 3 - 7x - 7$$

$$D = -7x \times 3 - 4 \times 3 - 7x - 7$$

$$D = -7 \times x \times 3 - 12 - 7x - 7$$

$$D = -7 \times 3 \times x - 7x - 12 - 7$$

$$D = -21x - 7x - 12 - 7$$

$$D = (-21 - 7)x - 19$$

$$D = -28x - 19$$

$$E = 4 + 6 \times (2x + 9)$$

$$E = 4 + 6 \times 2x + 6 \times 9$$

$$E = 4 + 6 \times 2 \times x + 54$$

$$E = 4 + 12x + 54$$

$$E = 12x + 4 + 54$$

$$E = 12x + 58$$

**Corrigé de l'exercice 2**

Développer et réduire chacune des expressions littérales suivantes :

$$A = 2x \times 8$$

$$A = 2 \times x \times 8$$

$$A = 2 \times 8 \times x$$

$$A = 16x$$

$$B = 2x \times 8$$

$$B = 2 \times x \times 8$$

$$B = 2 \times 8 \times x$$

$$B = 16x$$

$$C = -6x + 3 + 3 \times (x + 7)$$

$$C = -6x + 3 + 3 \times x + 3 \times 7$$

$$C = -6x + 3 + 3x + 21$$

$$C = -6x + 3x + 3 + 21$$

$$C = (-6 + 3)x + 24$$

$$C = -3x + 24$$

$$D = 6 + (-5x - 7) \times 7$$

$$D = 6 - 5x \times 7 - 7 \times 7$$

$$D = 6 - 5 \times x \times 7 - 49$$

$$D = 6 - 5 \times 7 \times x - 49$$

$$D = 6 - 35x - 49$$

$$D = -35x + 6 - 49$$

$$D = -35x - 43$$

$$E = 8x + 5 \times (5x + 4)$$

$$E = 8x + 5 \times 5x + 5 \times 4$$

$$E = 8x + 5 \times 5 \times x + 20$$

$$E = 8x + 25x + 20$$

$$E = (8 + 25)x + 20$$

$$E = 33x + 20$$

**Corrigé de l'exercice 3**

Développer et réduire chacune des expressions littérales suivantes :

$$A = 7 \times 9x$$

$$A = 7 \times 9 \times x$$

$$A = 63x$$

$$B = 3 \times 4x$$

$$B = 3 \times 4 \times x$$

$$B = 12x$$

$$C = (-9x + 3) \times 8 + 7x - 4$$

$$C = -9x \times 8 + 3 \times 8 + 7x - 4$$

$$C = -9 \times x \times 8 + 24 + 7x - 4$$

$$C = -9 \times 8 \times x + 7x + 24 - 4$$

$$C = -72x + 7x + 24 - 4$$

$$C = (-72 + 7)x + 20$$

$$C = -65x + 20$$

$$D = 3x + (5x + 8) \times 8$$

$$D = 3x + 5x \times 8 + 8 \times 8$$

$$D = 3x + 5 \times x \times 8 + 64$$

$$D = 3x + 5 \times 8 \times x + 64$$

$$D = 3x + 40x + 64$$

$$D = (3 + 40)x + 64$$

$$D = 43x + 64$$

$$E = 3 + (-3x + 5) \times 4$$

$$E = 3 - 3x \times 4 + 5 \times 4$$

$$E = 3 - 3 \times x \times 4 + 20$$

$$E = 3 - 3 \times 4 \times x + 20$$

$$E = 3 - 12x + 20$$

$$E = -12x + 3 + 20$$

$$E = -12x + 23$$

### Corrigé de l'exercice 4

Développer et réduire chacune des expressions littérales suivantes :

$$A = 9 \times 8x$$

$$A = 9 \times 8 \times x$$

$$A = 72x$$

$$B = 4x \times 2$$

$$B = 4 \times x \times 2$$

$$B = 4 \times 2 \times x$$

$$B = 8x$$

$$C = 8 \times (-2x + 1) - 7$$

$$C = 8 \times (-2x) + 8 \times 1 - 7$$

$$C = 8 \times (-2) \times x + 8 - 7$$

$$C = -16x + 1$$

$$D = 6x + 6 \times (8x - 6)$$

$$D = 6x + 6 \times 8x + 6 \times (-6)$$

$$D = 6x + 6 \times 8 \times x - 36$$

$$D = 6x + 48x - 36$$

$$D = (6 + 48)x - 36$$

$$D = 54x - 36$$

$$E = (10x + 8) \times 3 - 7x + 7$$

$$E = 10x \times 3 + 8 \times 3 - 7x + 7$$

$$E = 10 \times x \times 3 + 24 - 7x + 7$$

$$E = 10 \times 3 \times x - 7x + 24 + 7$$

$$E = 30x - 7x + 24 + 7$$

$$E = (30 - 7)x + 31$$

$$E = 23x + 31$$

### Corrigé de l'exercice 5

Développer et réduire chacune des expressions littérales suivantes :

$$A = 7 \times 2x$$

$$A = 7 \times 2 \times x$$

$$A = 14x$$

$$B = 2x \times 8$$

$$B = 2 \times x \times 8$$

$$B = 2 \times 8 \times x$$

$$B = 16x$$

$$C = 9x + 6 \times (8x - 7)$$

$$C = 9x + 6 \times 8x + 6 \times (-7)$$

$$C = 9x + 6 \times 8 \times x - 42$$

$$C = 9x + 48x - 42$$

$$C = (9 + 48)x - 42$$

$$C = 57x - 42$$

$$D = 7x + 7 + 10 \times (5x - 4)$$

$$D = 7x + 7 + 10 \times 5x + 10 \times (-4)$$

$$D = 7x + 7 + 10 \times 5 \times x - 40$$

$$D = 7x + 7 + 50x - 40$$

$$D = 7x + 50x + 7 - 40$$

$$D = (7 + 50)x - 33$$

$$D = 57x - 33$$

$$E = -1 + 10 \times (-x - 5)$$

$$E = -1 + 10 \times (-x) + 10 \times (-5)$$

$$E = -1 + 10 \times (-1) \times x - 50$$

$$E = -1 - 10x - 50$$

$$E = -10x - 1 - 50$$

$$E = -10x - 51$$