

Correction parcours fléché 1 :
Développer et réduire une expression grâce à la simple distributivité

Développe et réduis les expressions ci-dessous.

Détaille les calculs effectués dans ton cahier.

$$k(a + b) = ka + kb$$

$$A = 4(x + 6)$$

$$B = 5(x + 3)$$

$$C = 7(x - 2)$$

$$D = 6(x - 3)$$

$$E = 2x(x + 8)$$

$$F = 3x(x + 7)$$

$$G = -4(x + 3)$$

$$H = -5(x + 6)$$

$$I = -9x(x - 3)$$

$$J = -7x(x - 4)$$

$$K = 6x(3x + 8)$$

$$L = 8x(4x + 5)$$

$$M = 5x - 9 + 3(4x + 5)$$

$$N = 7x - 4 + 5(3x + 6)$$

$$O = 12x - 20 - 7(2x - 6)$$

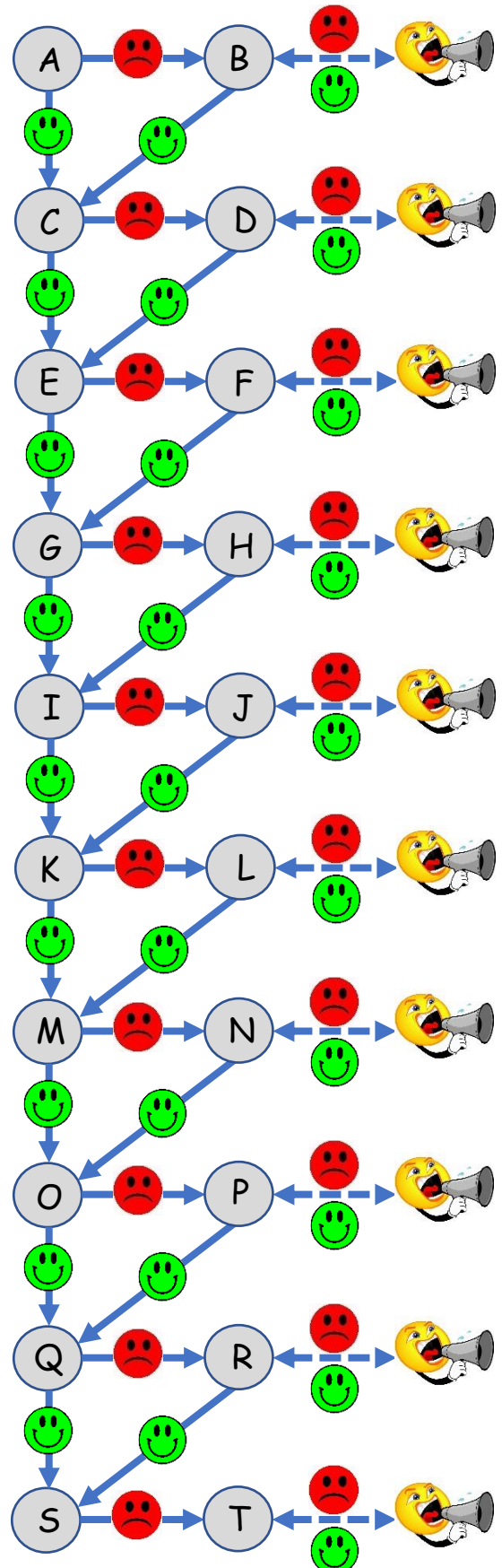
$$P = 15x - 25 - 4(5x - 8)$$

$$Q = 5x^2 + 6x - 15 + (-2x^2 - 4x + 20)$$

$$R = 7x^2 + 8x - 12 + (-3x^2 - 2x + 22)$$

$$S = 5x^2 + 6x - 15 - (-2x^2 - 4x + 20)$$

$$T = 7x^2 + 8x - 12 - (-3x^2 - 2x + 22)$$



$$A = 4(x + 6)$$

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

$$A = 4x + 24$$

$$B = 5(x + 3)$$

$$B = 5 \times x + 5 \times 3$$

$$B = 5x + 15$$

$$C = 7(x - 2)$$

$$C = 7 \times x - 7 \times 2$$

$$C = 7x - 14$$

$$D = 6(x - 3)$$

$$D = 6 \times x - 6 \times 3$$

$$D = 6x - 18$$

$$E = 2x(x + 8)$$

$$E = 2x \times x + 2x \times 8$$

$$E = 2x^2 + 16x$$

$$F = 3x(x + 7)$$

$$F = 3x \times x + 3x \times 7$$

$$F = 3x^2 + 21x$$

$$G = -4(x + 3)$$

$$G = -4 \times x - 4 \times 3$$

$$G = -4x - 12$$

$$H = -5(x + 6)$$

$$H = -5 \times x - 5 \times 6$$

$$H = -5x - 30$$

$$I = -9x(x - 3)$$

$$I = -9x \times x + 9x \times 3$$

$$I = -9x^2 + 27x$$

$$J = -7x(x - 4)$$

$$J = -7x \times x + 7x \times 4$$

$$J = -7x^2 + 28x$$

$$K = 6x(3x + 8)$$

$$K = 6x \times 3x + 6x \times 8$$

$$K = 18x^2 + 48x$$

$$L = 8x(4x + 5)$$

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

$$L = 32x^2 + 40x$$

$$M = 5x - 9 + 3(4x + 5)$$

$$M = 5x - 9 + 3 \times 4x + 3 \times 5$$

$$M = 5x - 9 + 12x + 15$$

$$M = 17x + 6$$

$$N = 7x - 4 + 5(3x + 6)$$

$$N = 7x - 4 + 5 \times 3x + 5 \times 6$$

$$N = 7x - 4 + 15x + 30$$

$$N = 22x + 26$$

$$O = 12x - 20 - 7(2x - 6)$$

$$O = 12x - 20 - 7 \times 2x + 7 \times 6$$

$$O = 12x - 20 - 14x + 42$$

$$O = -2x + 22$$

$$P = 15x - 25 - 4(5x - 8)$$

$$P = 15x - 25 - 4 \times 5x + 4 \times 8$$

$$P = 15x - 25 - 20x + 32$$

$$P = -5x + 7$$

$$Q = 5x^2 + 6x - 15 \oplus (-2x^2 - 4x + 20)$$

$$Q = 5x^2 + 6x - 15 - 2x^2 - 4x + 20$$

$$Q = 3x^2 + 2x + 5$$

$$R = 7x^2 + 8x - 12 \oplus (-3x^2 - 2x + 22)$$

$$R = 7x^2 + 8x - 12 - 3x^2 - 2x + 22$$

$$R = 4x^2 + 6x + 10$$

$$S = 5x^2 + 6x - 15 \ominus (-2x^2 - 4x + 20)$$

$$S = 5x^2 + 6x - 15 + 2x^2 + 4x - 20$$

$$S = 7x^2 + 10x - 35$$

$$T = 7x^2 + 8x - 12 \ominus (-3x^2 - 2x + 22)$$

$$T = 7x^2 + 8x - 12 + 3x^2 + 2x - 22$$

$$T = 10x^2 + 10x - 34$$