Corrections

Exercice n°1 - Version 1.0

Programme 1: -7x + 4

Programme 2: $(x+3) \times (-7) = -7x - 21$

Programme 3 : $(8x - 2) \times 2 = 16x - 4$

Exercice n°2 - Version 2.0

Programme 1:-5x+9

Programme 2 : $(x-2) \times 9 = 9x - 18$

Programme 3: $(2x-5) \times 2 = 4x-10$

Exercice n°3 - Version 3.0

Programme 1: -8x + 2

Programme 2: $(x-2) \times (-7) = -7x + 14$

Programme 3: $(2x + 9) \times 2 = 4x + 18$

Exercice n°4 - Version 4.0

Programme 1:-3x-8

Programme 2 : $(x - 2) \times 2 = 2x - 4$

Programme 3: $(4x - 4) \times 2 = 8x - 8$

Exercice n°5 - Version 1.0

A = (6+2)x = 8x

 $B = -7 \times x \times x = -7 \times x^2$

 $C = (7 + 9) \times x = 16x$

 $D = 7 \times 9 \times x \times x = 63 \times x^2$

 $E = 2x + 5x - 3 \times (-9) = (2+5)x + 27 = 7x + 27$

 $F = 7 \times (-5y - 9) = 7 \times (-5)y + 7 \times (-9) = -35y - 63$

 $G = 2a^2 + a \times (2+1) = 2a^2 + 3a$

H = (3-6)x = (-3)x

Exercice n°6 - Version 2.0

A = (9 + 8)x = 17x

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

 $C = (6+3) \times x = 9x$

 $D = 6 \times 3 \times x \times x = 18 \times x^2$

 $E = 3x + 7x - 3 \times 9 = (3+7)x - 27 = 10x - 27$

 $F = -8 \times (-3y - 2) = -8 \times (-3)y - 8 \times (-2) = 24y + 16$

 $G = 2a^2 + a \times (1+1) = 2a^2 + 2a$

H = (2-6)x = (-4)x

Exercice n°7 - Version 3.0

A = (9+5)x = 14x

 $B = -3 \times x \times x = -3 \times x^2$

 $C = (-5 - 5) \times x = -10x$

 $D = -5 \times (-5) \times x \times x = 25 \times x^2$

 $E = -9x - 9x + 2 \times (-7) = (-9 - 9)x - 14 = -18x - 14$

 $F = -7 \times (8y + 7) = -7 \times 8y - 7 \times 7 = -56y - 49$

 $G = 2a^2 + a \times (2+3) = 2a^2 + 5a$

H = (2 + 8)x = (10)x

Exercice n°8 - Version 4.0

A = (3+6)x = 9x

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

 $C = (3+6) \times x = 9x$

 $D = 3 \times 6 \times x \times x = 18 \times x^2$

 $E = 6x - 8x + 7 \times 3 = (6 - 8)x + 21 = -2x + 21$

 $F = 9 \times (3y + 3) = 9 \times 3y + 9 \times 3 = 27y + 27$

 $G = 1a^2 + a \times (1+3) = 1a^2 + 4a$

H = (8+2)x = (10)x

Exercice n°9 - Version 1.0

 $A = 5(x-6) = 5x + 5 \times (-6) = 5x - 30$

 $B = 7(7x + 4) = 7 \times 7x + 7 \times 4 = 49x + 28$

 $C = y(-2+2y) = y \times (-2) + y \times 2y = -2y + 2y^2$

 $D = 2t(-2t-5) = 2t \times (-2)t + 2t \times (-5) = -4t^2 - 10t$

Exercice n°10 - Version 2.0

 $A = 5(x+6) = 5x + 5 \times 6 = 5x + 30$

 $B = 9(5x + 2) = 9 \times 5x + 9 \times 2 = 45x + 18$

 $C = y(3-4y) = y \times 3 + y \times -4y = 3y + -4y^2$

 $D = 2t(3t-7) = 2t \times 3t + 2t \times (-7) = 6t^2 - 14t$

Exercice n°11 - Version 3.0

 $A = -2(x-3) = -2x-2 \times (-3) = -2x+6$

 $B = -2(-8x - 3) = -2 \times (-8)x - 2 \times (-3) = 16x + 6$

 $C = y(-2+8y) = y \times (-2) + y \times 8y = -2y + 8y^2$

 $D = 2t(-3t-2) = 2t \times (-3)t + 2t \times (-2) = -6t^2 - 4t$

Exercice n°12 - Version 4.0

 $A = -7(x+5) = -7x - 7 \times 5 = -7x - 35$

 $B = -2(8x + 3) = -2 \times 8x - 2 \times 3 = -16x - 6$

 $C = y(2+7y) = y \times 2 + y \times 7y = 2y + 7y^2$

 $D = 3t(8t + 4) = 3t \times 8t + 3t \times 4 = 24t^{2} + 12t$

Exercice n°13 - Version 1.0

Factoriser les expressions suivantes.

 $E = 7x \times 6 - 1 \times 6 = (7x - 1) \times 6$

 $F = -18x + 6x = (-18 + 6) \times x = -12x$

 $G = -2 \times x + 2x \times x = (-2 + 2x) \times x$

 $H = -3x^2 - 9x^2 = (-3 - 9)x^2 = -12x^2$

Exercice n°14 - Version 2.0

Factoriser les expressions suivantes.

 $E = 3x \times 9 + 1 \times 9 = (3x + 1) \times 9$

 $F = 42x + 7x = (42 + 7) \times x = 49x$

 $G = -36 \times x + 9x \times x = (-36 + 9x) \times x$

 $H = -2x^2 + 3x^2 = (-2 + 3)x^2 = 1x^2$

Exercice n°15 - Version 3.0

Factoriser les expressions suivantes.

 $E = 9x \times 9 - 1 \times 9 = (9x - 1) \times 9$

 $F = 24x + 4x = (24 + 4) \times x = 28x$

 $G = -3 \times x + 3x \times x = (-3 + 3x) \times x$

 $H = 3x^2 + 6x^2 = (3+6)x^2 = 9x^2$

Exercice n°16 - Version 4.0

Factoriser les expressions suivantes.

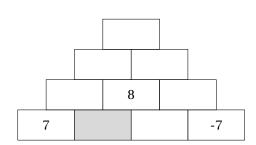
 $E = 8x \times 3 + 1 \times 3 = (8x + 1) \times 3$

 $F = -35x + 5x = (-35 + 5) \times x = -30x$

 $G = 32 \times x + 8x \times x = (32 + 8x) \times x$

 $H = 5x^2 + 8x^2 = (5 + 8)x^2 = 13x^2$

Exercice n°17



- 1. Fait à gauche.
- 2. On peut mettre un nombre x quelconque dans la case grise, on trouve toujours 24 dans la case la plus haute. Voir à droite.

