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Calcul littéral

Exercice 1 Link the expressions which are equal:

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|----------------------------|---|-------------|
| a) $3(y + 1 + 2y)$ | ● | ● $2y + 1$ |
| b) $y - 2y + 3y - 4y + 5y$ | ● | ● 0 |
| c) $5y + 4y$ | ● | ● $4y + 10$ |
| d) $1,5y + 2 + 0,5y - 1$ | ● | ● $-y$ |
| e) $7(y + 1) - 7y$ | ● | ● $9 - y$ |
| f) $-y + 5(y + 2)$ | ● | ● $3y$ |
| g) $2(y - 1) + 2(y + 1)$ | ● | ● $9y$ |
| h) $4 + y - y - 4$ | ● | ● $9y + 3$ |
| i) $2y - 3y$ | ● | ● $4y$ |
| j) $5 - y + 4$ | ● | ● 7 |

Exercice 2 Calculate and provide the simplest result:

- | | | |
|--------------------------|--------------------------|---------------------------------|
| a) $12 \cdot (x + 5)$ | e) $7 \cdot (y \cdot 5)$ | i) $10(4y + 9) - 7y$ |
| b) $3(2y - 7)$ | f) $-2(x - 6)$ | j) $3a + 2a - 7 + 4(8 \cdot a)$ |
| c) $(-6x) \cdot (3 + x)$ | g) $25 \cdot x + 4$ | |
| d) $2a - 6 + 4$ | h) $3(9c + 1) + 7$ | |

Exercice 3 Calculate and provide the simplest result:

- | | |
|------------------------|----------------------------|
| a) $5(x + 2) - 2x$ | i) $10(2b + 2b + 1) - 10b$ |
| b) $y + 4 - 2y + 6$ | j) $-4x + 5x$ |
| c) $1,5x + 4(x - 1)$ | k) $0,5x - 5x$ |
| d) $z + 8z$ | l) $w + 3 + 4(2w + 2)$ |
| e) $5m - 7m$ | m) $6(x - 4) + 6x$ |
| f) $20(2 - 3v)$ | n) $(z + 2)(z + 2)$ |
| g) $2a - 5a - a$ | o) $t + t - 2t$ |
| h) $3y + 2(5 + y) + 4$ | p) $(2x - 1)(x + 1)$ |

Exercice 4 Calculate the **area** and the **perimeter** of the following figures:

