



Test 1

Calcul littéral

*Le Châtelard*

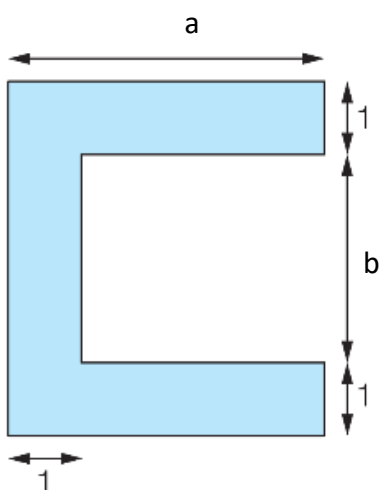
**Exercice 1 (10 points)** Link the expressions which are equal:

- |                            |   |            |
|----------------------------|---|------------|
| a) $3(y + 2 + 2y)$         | ● | ● $y$      |
| b) $y + 2y - 3y + 4y - 5y$ | ● | ● $2y - 1$ |
| c) $5y - 4y$               | ● | ● $9y + 6$ |
| d) $1.5y - 2 + 0.5y + 1$   | ● | ● $3y + 8$ |
| e) $7(y - 1) - 7y$         | ● | ● $-7$     |
| f) $-y + 4(y + 2)$         | ● | ● $6y$     |
| g) $3(y - 1) + 3(y + 1)$   | ● | ● $0$      |
| h) $7 + y - 7 - y$         | ● | ● $-2y$    |
| i) $3y - 5y$               | ● | ● $-y$     |
| j) $5 - y + 4$             | ● | ● $9 - y$  |

**Exercice 2 (6 points)** Calculate and provide the simplest result:

- |                          |   |                      |
|--------------------------|---|----------------------|
| a) $(-2x) \cdot (4 + x)$ | = | <input type="text"/> |
| b) $2a - 7 - 4$          | = | <input type="text"/> |
| c) $10(4y + 9) - 6y$     | = | <input type="text"/> |
| d) $5(x + 2) - 3x$       | = | <input type="text"/> |
| e) $(2x + 1)(x - 1)$     | = | <input type="text"/> |
| f) $3y + 2(5 - y) + 4$   | = | <input type="text"/> |

**Exercice 3 (4 points)** Calculate the **area** and the **perimeter** of the figure bellow:



area :
perimeter :