



CLASSWORK: Expressions and equations

1. Simplify:

a) $1 \text{ cm} + 3 \text{ cm} + 5 \text{ cm} =$

b) $3x + x + 9x - 12x =$

c) $3x + 6x - 5x + 7 =$

d) $3 + 4x + 2y - 4x =$

2. Solve the following equations:

a. $86 + x = 123$

b. $128 - m = 54$

c. $z - 35 = 43$

d. $3x = 27$

e. $40 \div x = 8$

f. $z \div 6 = 42$

3. Write an expression for the following problems:

a. 3 packages of cookies cost a dollars. How many dollars do 5 of the same packages cost?

b. 5 bottles of juice cost b dollars. How many bottles can one buy with c dollars?

4. A 3-digit number **A2B** is divisible by 3 and by 5. Find the number.

5. Is the number 12345 divisible by 3? by 9? by 5? by 10?

6. Without calculating the sum, can you tell if $222 + 222222$ is divisible by 2? 3? 5? 10?

7. Simplify expression, so that there is 0 (zero) on the right (move everything to the left)

a. $2x + a - 7 = x - a + 1$

b. $3y - b + 4 = b - y - 1$