

ALGEBRA 1

1) Write an equation for each sentence:

- a. Three added to four times a number is equal to fifteen
- b. One third of a number is equal to seven
- c. The cost of m dozens of chocolate boxes, if each chocolate box costs €21
- d. Seven subtracted from three times a number is equal to eight
- e. How many chocolates will each boy get if x chocolates are to be shared equally among six boys?
- f. The difference between a number and eleven is equal to five.
- g. Half a number is seventeen.
- h. The double of a number plus two is equal to 18.
- i. One third of a number minus four is equal to seventeen.
- j. One quarter of a number plus five is equal to nine.

2) For each sentence, decide which equation matches it.

I) Five more than the double of a number is 25.

- a) $2n + 5 = 25$ b) $2+5+n = 25$ c) $2 + 5n = 25$ d) $2 - 5n = 25$

II) The difference between 20 and twice a number is 8.

- a) $20 - 2n = 8$ b) $20 - 8 = 2n$ c) $2 \cdot 8 - n = 20$ d) $2n - 8 = 20$

III) Carol spent €39 on x magazines. They cost €3 each.

- a) $39n = 3$ b) $\frac{n}{3} = 39$ c) $\frac{3}{n} = 39$ d) $3n = 39$

IV) One third of the number that comes after my number is equal to 12.

- a) $\frac{x}{3} = 12$ b) $\frac{x-1}{3} = 12$ c) $\frac{x+1}{3} = 12$ d) $12 = \frac{x}{3} + 1$