# Maths Star

## Substitution

Substitution is when we replace the letters with the numbers that we are given, then work out the sum.

E.g. Work out $2x + 3y$ when $x = 3$ and $y = 4$

To do this, we replace the x with a 3 and the y with a 4, then complete the sum. REMEMBER, when a number is right in front of a letter, it means we MULTIPLY, so 2x is "2 times x".

So, $2x + 3y = (2 \times 3) + (3 \times 4)$

$= 6 + 12 = 18$

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Try it yourself!

1) Find $3a + 6b$ when $a = 4$ and $b = 2$

2) Find $2x + 3y + z$ when $x = 4$, $y = 2$ and $z = 5$

3) Find $4x - 3z$ when $x = 3$ and $y = 2$

4) Find $4x - 3z$ when $x = 3$ and $y = -2$

5) What is the difference between the answers to numbers 3 and 4? And why?

6) Find $3x - 3y - 3z$ when $x = 10$, $y = 5$ and $z = -3$

⭐Reminder: Remember your rules . . .

minus x minus = plus,     plus x plus = plus,     plus x minus = minus