

Mathematics

Expressions, equations and inequalities

Algebraic expressions

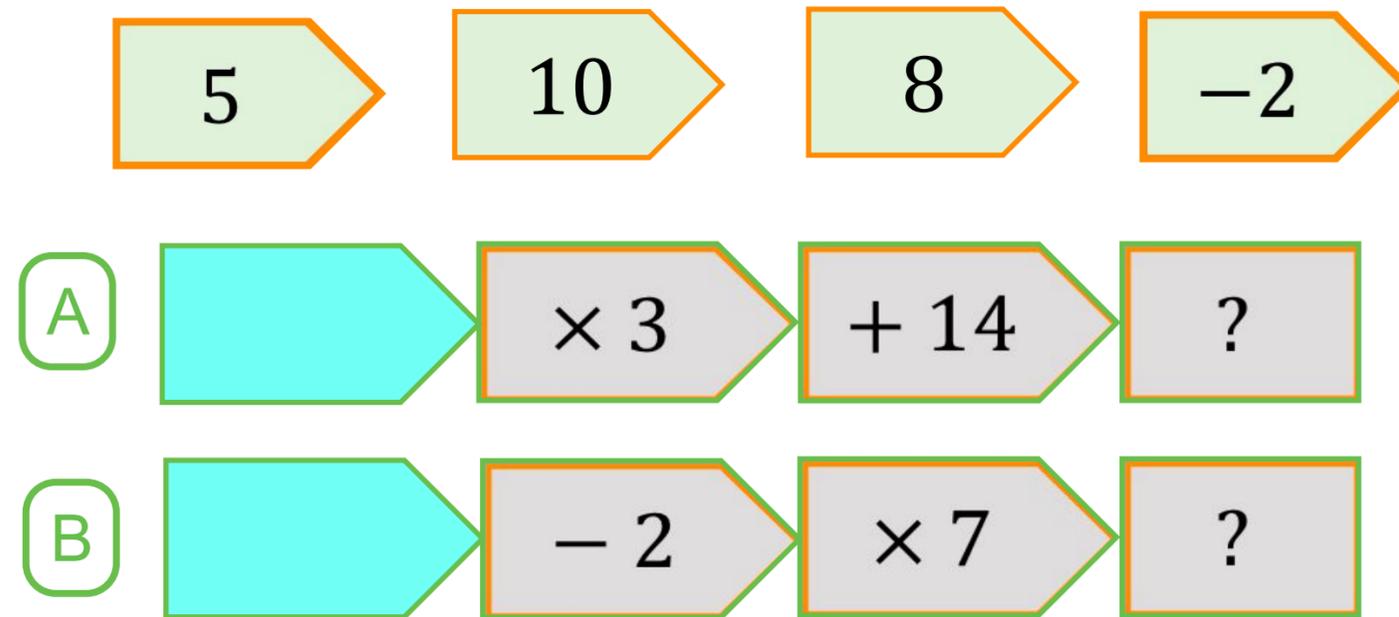
Independent Task

Ms Jones



Try This

Input **each** of the numbers into **both** of the function machines:



Which had a greater output from the first function machine?

Find a number that has the same output from both function machines.



Independent task

1. Match the cards below into pairs of equivalent expressions.

$$3b$$

$$5 - 3b$$

$$2b - 3$$

$$5b$$

$$5 - 3 \times b$$

$$3 \times b$$

$$b \times 5$$

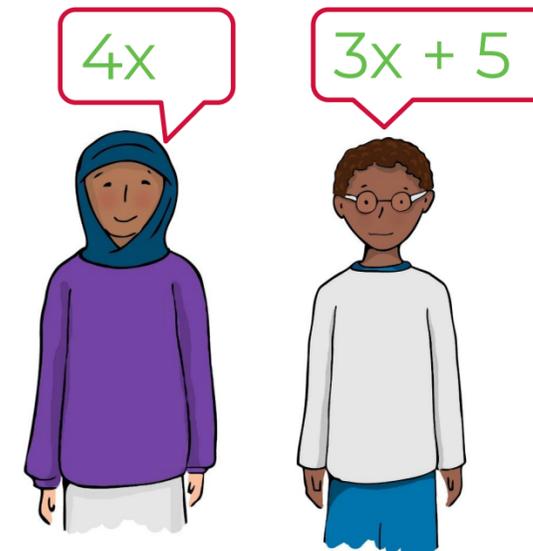
$$2 \times b - 3$$

2. Work out the value of each expression when $n = 3$.

- a) $2n$ b) $n - 3$ c) $2n - 10$ d) $100 - 10n$ e) $n^2 + 2n$

3. Look at the two students' expressions.

- a) Find three values of x , so that $4x < 3x + 5$.
b) Find three values of x , so that $4x > 3x + 5$.
c) Find the values of x , so that $4x = 3x + 5$.



Explore

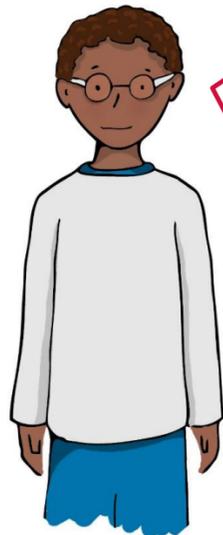
Cala and Xavier have written expressions using the variable b . Compare their expressions.

The value of my expression is greater when ...



$$b + 4$$

The value of my expression is greater when ...



$$2b$$

The expressions are equal in value when ...

