

Reasoning and problem solving

Independent Task

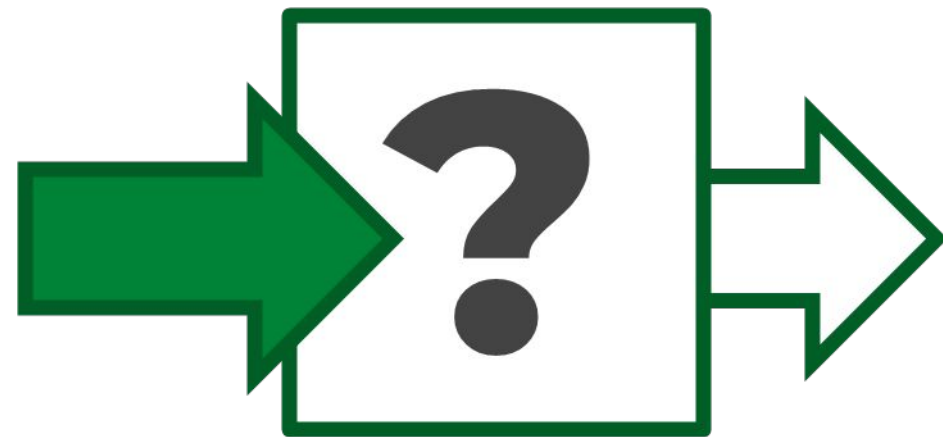
Mathematics

Miss Jones



Function machine

A function machine creates a number sequence. Look at the table and try to identify the operations that the function machine completes.



Input	Output
1	8
2	13
3	18
4	23

If the input is represented by the letter 'y' write an algebraic expression for the function.



Marbles

Sara has some marbles. Dev has twice as many as Sara. Mia has the same amount as both Sara and Dev combined and an additional thirty. Altogether, they have 126 marbles. How many does each child have?

How many different ways can you represent and solve this problem?

