

Describing functions

Write what each pair of machines is doing. Then write the missing output. Write four more inputs and outputs for each.

1

Multiplies by , then adds .

200 → .

2

Multiplies by , then takes .

3 → .

3

Multiplies by , then adds .

6 → .



Write your own pair of function machines with three inputs and outputs.

I am confident with working out the relationship between numbers in a function machine.

Match each algebraic expression to one of the function machines below. Then write the missing steps for each function machine.

- 1 $10 \times n - 5$
($10n - 5$)
- 2 $5 \times n + 2$
($5n + 2$)
- 3 $4 \times n + 10$
($4n + 10$)

4

A

16

5

B

50

6

C

100



If each pair of function machines were put in reverse order so that they added or subtracted first, then multiplied, would the outputs be the same?

I am confident with working out the relationship between numbers in a function machine.