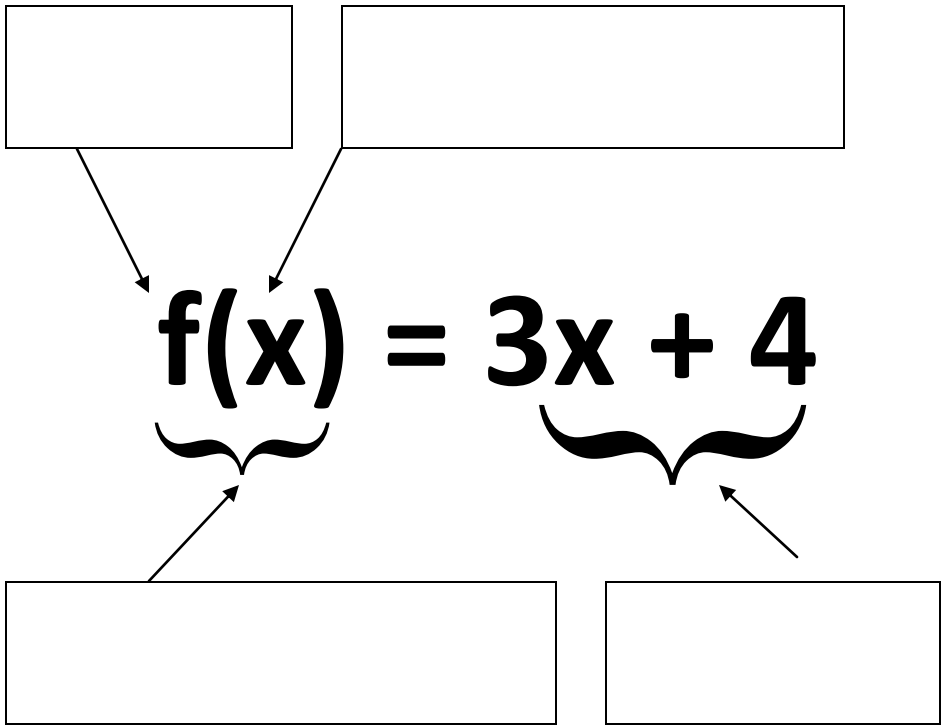
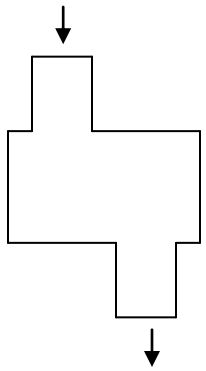
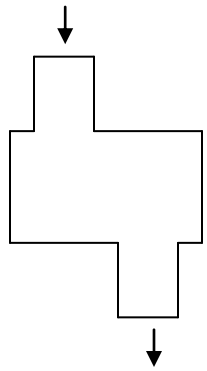
Function Machines & Function Notation

A function can be thought of as a _____ that assigns ____ _____ to _____ _____.



Find and illustrate f(2) and f(-1) using the function machines below.





Let $f(x) = x^2 + 3$ and $g(x) = x + 1$.

Find the following values:

f(3) =

g(3) =

f(-2) =

g(0) =

f(2) + g(1) =

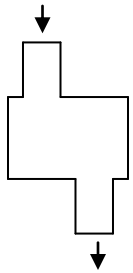
g(-1) + f(1) =

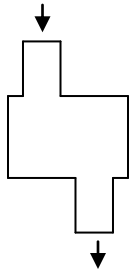
f(g(2)) =

g(f(0)) =

f(y) =

g(w) =





$f(x) = x^2 - 3x$

What is the value of $f(5)$?

A 4

B 8

C 10

D 16

$f(x) = -3x + 1$

What is $f(3)$?

A −10

B −8

C 8

D 10

If $f(x) = 2x - 5$, which expression represents $f(x + 1)$?

A $2x - 3$

B $2x - 4$

C $2x - 5$

D $2x + 7$