Functions: Verbally vs. Table

Input = x

1. Underline key words
2. Create the equation (algebraic) → y = mx + b
3. plug the table values into the equation to see if it works.

EX1: This function multiplies the input by 3

y = mx + b

$y = 3x$

Plug x and y into table to see if it works.

$-3 = 3(-1)$

$-3 = -3$

$0 = 3(0)$

$0 = 0$

$-2 = 3(-1)$

$-2 = -3$

Which table matches this verbal function

x	y
-1	-3 ✓
0	0 ✓
1	3

x	y
-1	-2 X
0	3
1	8

EX2. The function multiplies the input by 1 then adds 2 to it.

y = mx + b

$y = 1x + 2$

$y = x + 2$

Plug x and y into table to see if it works.

$0 = -1 + 2$

$0 = 1$

$1 = -1 + 2$

$1 = 1$

Which table matches this verbal function

x	y
-1	0
0	1
1	2

x	y
-1	1
0	2
1	3

EX3: This function divides the input by 2

y = mx + b

Plug x and y into table to see if it works.

Which table matches this verbal function

x	y
-1	-1/2
0	0
1	1/2

x	y
-1	-2/3
0	0
1	2/3

EX4: The function multiplies the input by 2 then subtracts 2 from it.

Plug x and y into table to see if it works.

Which table matches this verbal function

x	y
-1	-4
0	-2
1	0

x	y
-1	-3
0	-1
1	1