



Objective: Writing a Function Rule from a Table

Homework FN6 – NYA p.272 #1 – 15, 18


Do Now: Use $y = 2x + 5$

1. Fill out the table
2. Where can you find the slope and y-intercept of a function on a table?

x	y
-1	
0	
1	
2	

Exam Prep: Which coordinate is the y-intercept of a function?

- a) (4, 4) b) (0, 4) c) (4, 0) d) (4, -4)



**Writing a function rule is all about finding the correct pattern!
Babies, chimps, and now you will learn from patterns. Practice.**

Practice: Regular Linear Function Tables

1)

x	f(x)
0	9
1	10
2	11
3	12
4	13

2)

x	y
5	5
10	10
15	15
20	20
25	25

3)

x	y
1	6
2	12
3	18
4	24
5	32

4)

x	f(x)
-5	-12
-4	-9
-3	-6
-2	-3
-1	0

5)

x	f(x)
0	1
1	0
2	-1
4	-3
8	-7

6)

x	Y
-2	-20
-1	-10
0	0
1	10
2	20

7)

x	y
4	3
6	4
8	5
10	6
12	7

8)

X	f(x)
2	-19
4	-19
8	-19
16	-19
32	-19

Function Rule Practice: Write a function using the table of values

1)

x	f(x)
0	1.00
1	1.21
2	1.44
3	1.69
4	1.84

2)

x	f(x)
0	7
3	-14
6	-35
9	-56
12	-77

3)

x	f(x)
1	-1
2	0
3	1
4	2
5	3

4)

X	f(x)
1	2
2	4
3	8
4	16
5	32

Answers Covered

$f(x) = \frac{(x + 10)^2}{100}$	$f(x) = -7x + 7$	$f(x) = x - 2$	$f(x) = 2^x$
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Functions are often created from word problems.

1. In a supermarket, salad is sold ready-made at 19 cents an ounce. Write a function for the cost, and use it to find the cost of 8 oz. of salad.
2. The area $A(r)$ of a circle with radius r . How about area $A(d)$ with diameter d ?
3. A worker earns \$50 for every job plus \$20 for every hour after the first. Model his wages using $s(h)$.
4. Suppose you borrow money to buy a lawn mower for \$245. You charge \$18 to mow a lawn. Write a function rule that models your profit as a function of the number of lawns mowed.
5. A dollhouse maker builds everything about 20 times smaller than normal sized objects. Write a function rule that the dollhouse maker would use to shrink everything.