
How Do You Write a Function Rule From Tables?

- Use Guess and Check
- Ask yourself the question “What do I have to do to _____ to get _____?”

Rules and Tables

First: Try adding or subtracting something with the “x.”

Second: Try multiplying/dividing something with the “x.”

Third: Try a combination of +, -, x, ÷ with the “x.”

Fourth: Make sure the rule works for **each** pair of numbers.

Example 1: Write a function rule for each table.

a)

x	y
1	5
2	6
3	7
4	8

b)

x	f(x)
0	0
3	9
6	36
9	81

c)

x	f(x)
1	1
4	7
7	13
10	19

d)

x	y
1	2
2	5
3	10
4	17

e)

x	f(x)
2	8
4	10
6	12
8	14

Example 2: The journalism class makes \$25 per page of advertising in the yearbook. If the class sells p pages of advertising, how much money will it earn?

a. Write a function rule to describe this relationship. Use $E(p)$ for the amount earned.



b. The class sold 6 pages of advertising. How much money did it make?

Example 3: The journalism class makes \$25 per page of advertising in the yearbook. They spent \$200 to purchase a new software package for designing each page.

a. Write a function rule to describe this relationship. Use $M(p)$ for the amount of profit earned.

b. How many pages will the class have to sell to break even?

Example 4: The choir spent \$100 producing audio disks of its last performance and will sell the disks for \$5.50 each.

a. Write a rule to describe the choir's profit, $P(d)$ as a function of the number of disks sold d .

b. How much profit will the choir make if 50 disks are sold?

Homework: pgs. 256 – 259 #5 – 19 odd, 25 – 28 all, 36 – 40 all, and the exercise at the bottom of pg. 260