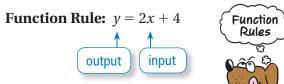
REVIEW: Function Rules

Key Concept and Vocabulary



Words: Double the value of x and add 4 to get the value of y.

Yo In

Skill Example

1. Equation: y = 20 - 4x **Table:**

Input, x	0	1	2	3	4	5
Output, y	20	16	12	8	4	0

Words: Multiply *x* by 4 and subtract from 20 to get the value of *y*.

Name _____

Visual Model

You can see how x and y compare by making an Input-Output table.

Function Rule: y = 2x + 4

Input, x	0	1	2	3	4	5
Output, y	4	6	8	10	12	14

Application Example

2. The equation $F = \frac{9}{5}C + 32$ describes how the Fahrenheit and Celsius scales relate. Describe this in words.

Input, C	0	5	10	15	20	25
Output, F	32	41	50	59	68	77

• Multiply C by $\frac{9}{5}$ and add 32 to get F.

PRACTICE MAKES PURR-FECT

Check your answers at BigIdeasMath.com. -

 $Complete \ the \ table. Then \ describe \ the \ pattern.$

3. y = 2x + 6

Input, x	0	1	2	3	4	5
Output, y	6	8	10	12	14	16

Multiply *x* by 2 and add 6 to get the value of *y*.

- **4.** y = 16 2x
- Input, x
 0
 1
 2
 3
 4
 5

 Output, y
 16
 14
 12
 10
 8
 6
- Multiply *x* by 2 and subtract from 16 to get the value of *y*.

- **5.** y = 3x + 7
- Input, x
 0
 1
 2
 3
 4
 5

 Output, y
 7
 10
 13
 16
 19
 22
- Multiply *x* by 3 and add 7 to get the value of *y*.

- **6.** y = 65 10x
- Input, x
 0
 1
 2
 3
 4
 5

 Output, y
 65
 55
 45
 35
 25
 15
- Multiply *x* by 10 and subtract from 65 to get the value of *y*.

UNIT CONVERSION Complete the table and describe the function rule in words.

7. Inches to Centimeters: C = 2.54I

Input, I	0	1	2	3	4	5
Output, C	0	2.54	5.08	7.62	10.16	12.7

8. Miles to Kilometers: K = 1.6M

Input, M	0	1	2	3	4	5
Output, K	0	1.6	3.2	4.8	6.4	8

Multiply *I* by 2.54 to get *C*.

Multiply M by 1.6 to get K.