Key

Vocabulary
- **Function** – a relation that gives exactly ___one___ output value for each input value.

- **Function Rule** – the relationship between each input and ___output___.

- **Function Table** – a way to organize the input-output values and the function rule.

- **Independent Value** – the number you choose to ___put___ in (input value).

- **Dependent Variable** – the ___value___ or result of the function (output value).

Guided Practice

1. Isaiah is buying jellybeans. In bulk, they cost $3 per pound, and a candy dish cost $2. The function rule 3x + 2 where x is the number of pounds, can be used to find the total cost of x pounds of jellybeans and 1 dish. Make a table that shows the total cost of buying 2, 3, or 4 pounds of jellybeans and 1 dish.

Pounds (x)	3x +2	Cost ($), y
2 →	$3 \cdot 2 + 2$	8
3 →	$3 \cdot 3 + 2$	11
4 →	$3 \cdot 4 + 2$	14

2. Jasper hikes 4 miles per hour. The function rule that represents this situation is 4x, where x is the number of hours. Make a table to find how many hours he has hiked when he has gone 8, 12, and 20 miles.

Hours (x)	4x ÷4	Miles (y)
2 →	$4 \cdot 2$	8
3 →	$4 \cdot 3$	12
5 →	$4 \cdot 5$	20

* when given the output, work backwards + do the opposite.

Partner Talk

Whitney has a total of 30 cupcakes for her guests. The function rule, $30 \div x$, where x is the number of guests, can be used to find the number of cupcakes per guest. Make a table of values that shows the number of cupcakes each guest will get if there are 6, 10, or 15 guests.

Number of Guests (x)	$30 \div x$	Cupcakes per Guest (y)
6	$30 \div 6$	5
10	$30 \div 10$	3
15	$30 \div 15$	2

Building on the Essential Question – How can a function table help you find input or output?

#1 If given the input, plug it through the function rule to get the output.

#2 If given the output, work backwards and do the opposite of the function rule.

Rate Yourself – Are you ready to move one? Shade the section that applies.

I have a few questions.

I'm ready to move on.

I have a lot of questions.

← Rate yourself!