

# Function Tables

## Guided Practice

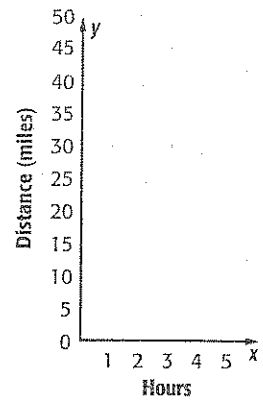


1. Isaiah is buying jelly beans. In bulk, they cost \$3 per pound, and a candy dish costs \$2. The function rule,  $3x + 2$  where  $x$  is the number of pounds, can be used to find the total cost of  $x$  pounds of jelly beans and 1 dish. Make a table that shows the total cost of buying 2, 3, or 4 pounds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

Pounds ( $x$ )	$3x + 2$	Cost (\$) ( $y$ )

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. Then graph the function. (Examples 3 and 4)

Hours ( $x$ )	$4x$	Miles ( $y$ )



## Independent Practice

**CCSS** Use Math Tools Complete each function table.\* (Examples 1–3)

1.

Input ( $x$ )	$3x + 5$	Output
0		
3		
9		

2.

Input ( $x$ )	$x - 4$	Output
4		
8		
11		

3.

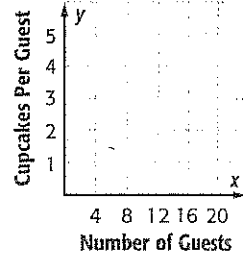
Input ( $x$ )	$x + 2$	Output
		2
		3
		8

4.

Input ( $x$ )	$2x + 4$	Output
		18
		22
		34

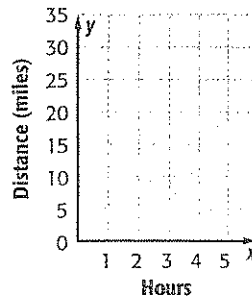
5. Whitney has a total of 30 cupcakes for her guests. The function rule,  $30 \div x$  where  $x$  is the number of guests, can be used to find the number of cupcakes per guest. Make a table of values that shows the number of cupcakes each guest will get if there are 6, 10, or 15 guests. Then graph the function. (Examples 1 and 2)

Number of Guests ( $x$ )	$30 \div x$	Cupcakes per Guest ( $y$ )



6. Bella rollerblades 8 miles in one hour. The function rule that represents this situation is  $8x$ , where  $x$  is the number of hours. Make a table to find how many hours she has skated when she has traveled 16, 24, and 32 miles. Then graph the function. (Examples 3 and 4)

Hours ( $x$ )	$8x$	Miles ( $y$ )



7. Refer to Exercise 6. How many miles would Bella travel if she skated for 7 hours?

14.

Input ( $x$ )	$x - 1$	Output
		0
		2
		4

15.

Input ( $x$ )	$2x - 6$	Output
		0
		6
		12

16. Ricardo weighs 2 pounds more than twice his sister's weight. The function rule,  $2x + 2$  where  $x$  is his sister's weight, can be used to find Ricardo's weight. Make a table of values that show Ricardo's weight when his sister is 20, 30, and 40 pounds. Then graph the function.

Ricardo's Sister's Weight ( $x$ )	$2x + 2$	Ricardo's Weight ( $y$ )

