Name _____

3-2 Reteach to Build Understanding

Linear Functions

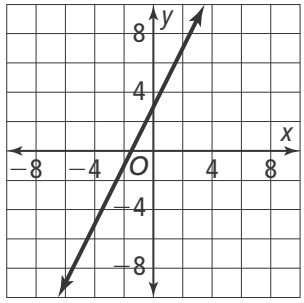
1. A linear function can be written in slope-intercept form, such as $f(x) = 2x + 3$. To find values of the function, multiply each x by 2 and then add 3. Make ordered pairs of each x-value and its output. The points can be used to graph the linear function. Its graph is a straight line.

Complete the table to find the outputs for $f(x)$.

Write the ordered pairs for the function.

x	$f(x) = 2x + 3$	Ordered Pairs
1	$2(1) + 3 =$ __	(1, __)
2	$2(\_\_) + 3 =$ __	(__, __)
3	$2(\_\_) + 3 =$ __	(__, __)
4	$2(\_\_) + 3 =$ ___	(__, ___)

Graph of the function $f(x) = 2x + 3$.



2. José represents the linear function $f(x) = 5x - 7$ with words.

Multiply each element in the domain by negative 7 and add 5.

Correct his error.

3. Donna made a table to show the total sales for x bracelets. Complete each step.

Step 1: Complete the table.

Number of Bracelets	1	2	3	4
Total sales (Dollars)	23	46		

Step 2: The total sales of the bracelets increases by _____ dollars for each bracelet sold. This is the slope of the linear function.

Step 3: Write the linear function using function notation and slope-intercept form.

$f(x) =$ _____