



Name \_\_\_\_\_ Date \_\_\_\_\_

**Skills Maintenance****Solving Algebraic Equations****Activity 1**

Evaluate the algebraic expressions.

1. Evaluate
- $5w$
- if
- $w = -5$
- .

\_\_\_\_\_

2. Evaluate
- $-x + 7$
- if
- $x = -2$
- .

\_\_\_\_\_

3. Evaluate
- $-6z$
- if
- $z = 7$
- .

\_\_\_\_\_

4. Evaluate
- $3 - m$
- if
- $m = 12$
- .

\_\_\_\_\_

5. Evaluate
- $7n$
- if
- $n = -8$
- .

\_\_\_\_\_

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## Apply Skills

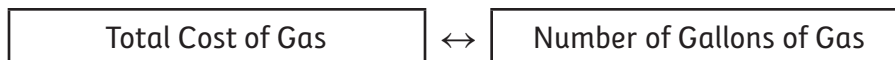
### Introduction to Functions

#### Activity 1

Find the relationship between the two parts of each statement.

<b>Model</b>	<p>Lisa gets paid \$10 per hour for babysitting.</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;">Amount Lisa Makes</div> <span style="margin: 0 10px;">↔</span> <div style="border: 1px solid black; padding: 5px; margin-left: 10px;">Number of Hours Lisa Works</div> </div> <p>The amount Lisa makes depends on how many hours she works.</p>
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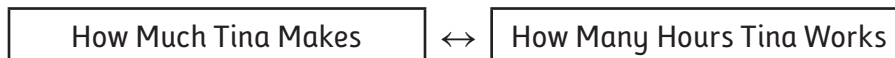
1. Gas costs \$4 per gallon.



Write a statement describing the function.

\_\_\_\_\_ depends on \_\_\_\_\_.

2. Tina makes \$8 per hour for her waitress job.



Write a statement describing the function.

\_\_\_\_\_ depends on \_\_\_\_\_.

3. Strawberries cost \$5 per pound.



Write a statement describing the function.

\_\_\_\_\_ depends on \_\_\_\_\_.

4. There is a \$1 processing fee for each ticket purchased.



Write a statement describing the function.

\_\_\_\_\_ depends on \_\_\_\_\_.



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## Activity 2

Look at the function machines and tables of input and output. Complete the statement that describes each of the functions.

**Model**

Input	Output
3	8
10	15
0	5
20	25
100	105

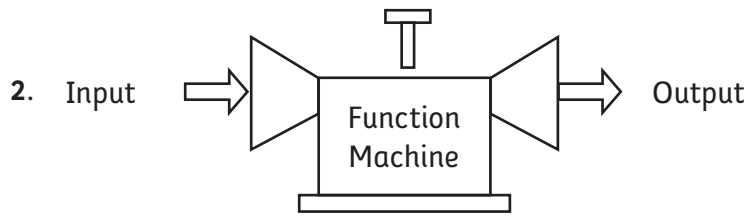
The input \_\_\_\_\_ plus 5 \_\_\_\_\_ equals the output.

1.

Input	Output
5	15
6	18
0	0
2	6
3	9

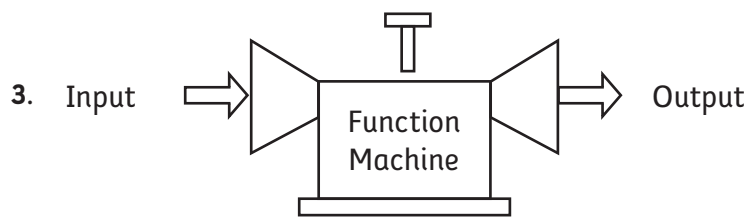
The input \_\_\_\_\_ equals the output.

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Input	Output
12	5
17	10
9	2
7	0
107	100

The input \_\_\_\_\_ equals the output.



Input	Output
15	3
40	8
5	1
50	10
10	2

The input \_\_\_\_\_ equals the output.



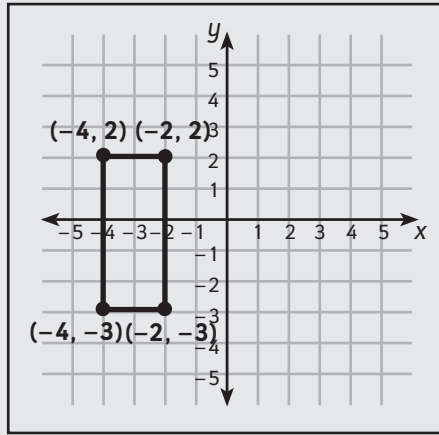
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**Problem-Solving Activity**  
**Coordinate Graphs**

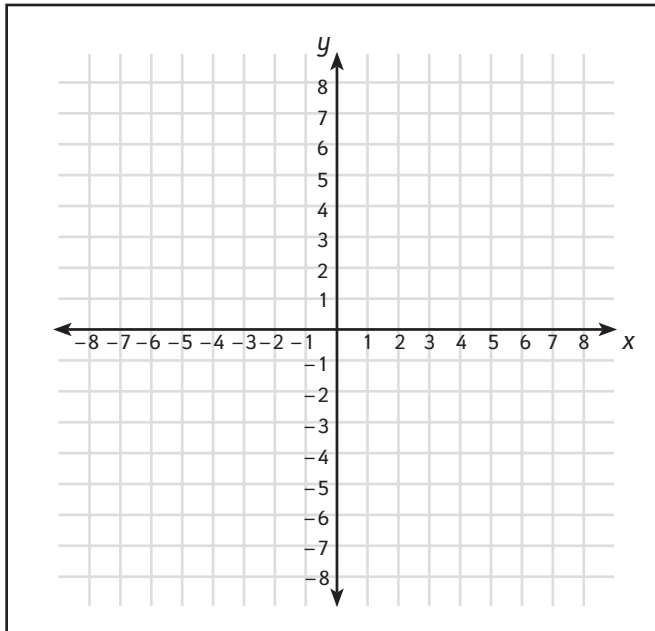
Follow the directions to draw shapes on the graph. Make sure that each drawing uses the correct quadrants. Label the coordinates for each vertex of the shape.

**Model**

Draw a rectangle onto the coordinate graph. Use only Quadrants II and III.



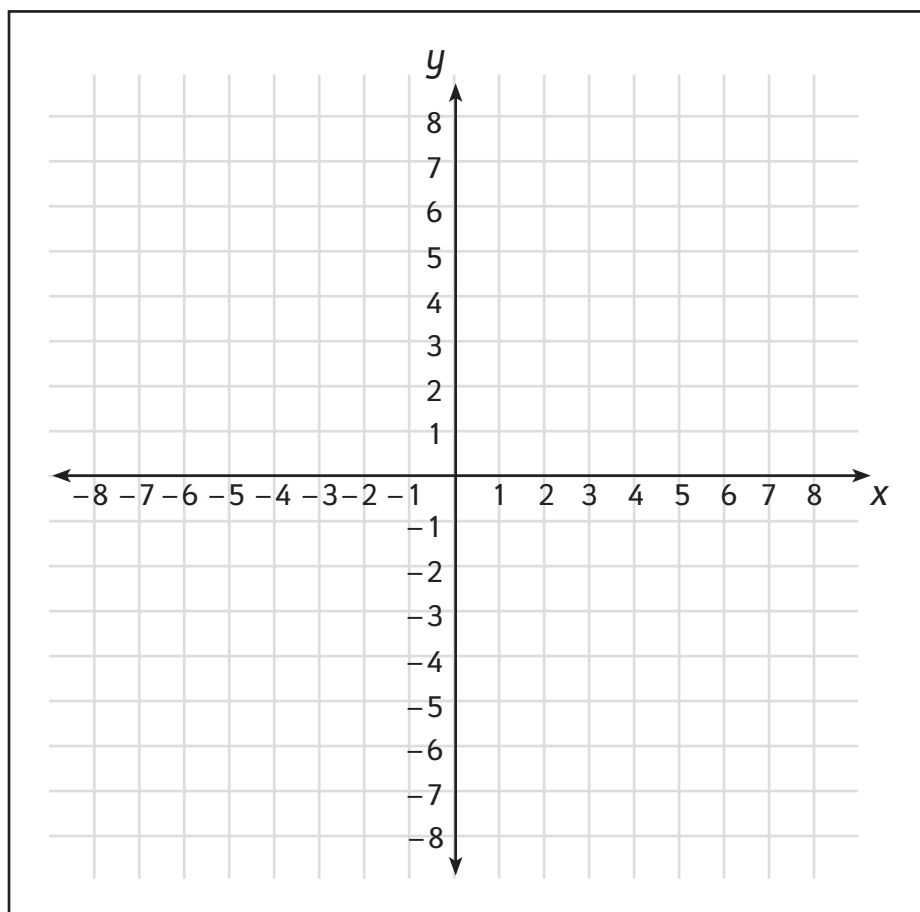
1. Draw a rectangle onto the coordinate graph. Use only Quadrants I and II.



# Lesson 1 | Problem-Solving Activity

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2. Draw a triangle onto the coordinate graph. Use only Quadrants III and IV.
3. Draw an L shape onto the coordinate graph. Use Quadrants I, II, and IV.



**mBook** Reinforce Understanding  
Use the mBook *Study Guide* to review lesson concepts.