

Determining the Domain and Range for Linear Functions

Name:

Date:

Vocabulary Review:

In your own words, define each of the following vocabulary terms.

- Independent Variable
- Dependent variable
- Domain
- Range

Apply New Learning:

1. Fill in the domain and range for each situation described in the table below. Refer to the Graphit interactive in Activity 1 for help.

	Function	Domain	Range
The cost to park in a garage is \$5 entry fee plus \$2 per hour.	$y(x) = 2x + 5$		
The amount of snow that fell after midnight is 3 feet per hour.	$y(x) = 3x$		
A swimming pool is draining at a rate of 1.5 feet per minute.	$y(x) = -1.5x$		

2. What is domain?

3. What is range?

4. Label true or false. If false, state why:

- a) A relation includes both domain and range.
- b) Dependent variables directly affect the value of the independent variable.
- c) The input is the range and the output is the domain.

5. Enter the domain and range of the graph below.

