

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Cohort: \_\_\_\_\_

### Independent vs. Dependent Variables - Math Poster Activity

Student Directions: You will make a poster that shows **three examples** of independent and dependent variable relationships. Your poster should include the following:

- A list of your three examples with an explanation that shows how you know which variable is Independent and which variable is dependent.
- A table that graphically organizes your three examples.
- A visual of each relationship obtained from a magazine, newspaper, the internet, etc.
- A graph of each example that shows the relationship / correlation between the independent and dependent variables.

#### Notes:



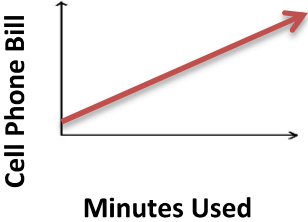


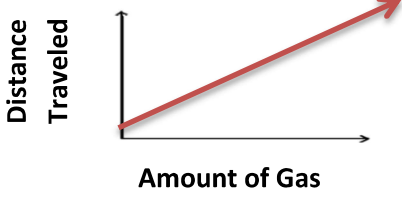


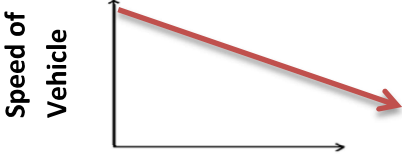
The independent variable in a relationship is the variable that is not changed by the other factor. The dependent variable changes when the other factor changes.

Consider the following example: The amount of time it takes Shelly to cross the finish line depends on the distance she is running. The independent variable is the distance. The dependent variable is the time.

How do you know? The distance causes Shelly's time to change. If the distance is longer, Shelly's time increases. If the distance is shorter, Shelly's time decreases.

### Dependent and Independent Variables (Example Poster)

1. The amount of a cell phone bill depends on the amount of minutes used. The more minutes used, the greater the bill.
2. The distance you can drive depends on the amount of gas you have. The more gas you have, the farther you can drive.
3. The time you arrive depends on the speed of the vehicle. The faster you drive, the less time it takes you to reach your destination.

Independent Variable	Dependent Variable	Graph
<p>The amount of minutes used.</p> 	<p>Cell phone bill</p> 	 <p style="text-align: center;">Minutes Used</p>
<p>The amount of gas in your car.</p> 	<p>Distance Traveled</p> 	 <p style="text-align: center;">Amount of Gas</p>
<p>The speed of the vehicle.</p> 	<p>The time you arrive at a destination.</p> 	 <p style="text-align: center;">Time</p>