**GPS Trilateration Activity**

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

Directions: You are lost. You have been traveling for a long time and do not know where you are. You have been given a device that shows you how far you are from certain cities, but not what city you are currently in. The last part is up to you. Using the following information and a map of the United States, use the 2-D trilateration techniques described in the previous activities to find out what city you are in.

1. You are currently:

* 484 miles from Denver, CO
* 166 miles from Kansas City, MO
* 435 miles from Chicago, IL

Where are you?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. You are currently:

* 190 miles from Pittsburgh, PA
* 233 miles from Raleigh, NC
* 124 miles from Philadelphia, PA

Where are you? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. You are currently:

* 224 miles from Las Vegas, NV
* 664 miles from Albuquerque, NM
* 825 miles from Portland, OR

Where are you? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. You are currently:

* 358 miles from Austin, TX
* 632 miles from Pierre, SD
* 394 miles from Greenville, MS

Where are you? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Now you come up with your own. Pick a city and three cities/landmarks located around it. Then, give the distances you would be from those locations if you were in that city.

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Where are you? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_