

# Surviving after an Earthquake

Name:

Date:

1. *What do we need?* What do you think you'd need to survive after an earthquake, and why?

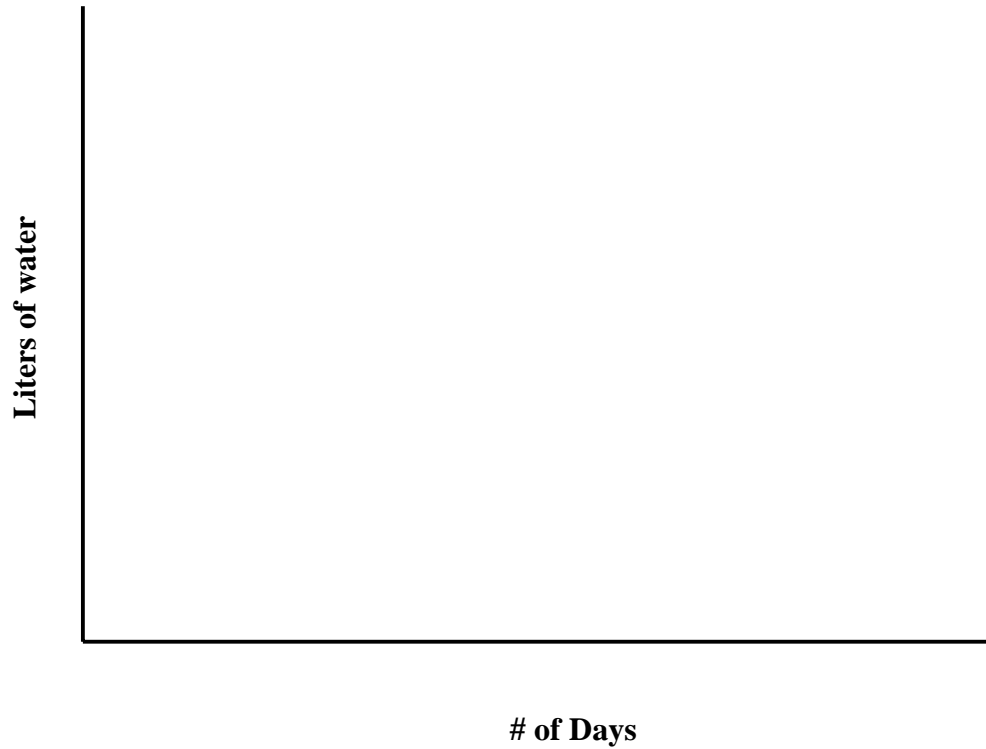
*Water is one of the most important things needed in survival. You can go over a week without food (though your body will start breaking down muscle to survive); you can only go 2-3 days without water. Our bodies are about 70% water, and it is needed to perform basic human functions like breathing, thinking, and maintaining a heartbeat.*

2. *How much?* Fill in the chart below showing how much water is needed for one person over a period of days.

<b>Number of Days</b>	<b>Total amount of water needed (in liters)</b>
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	

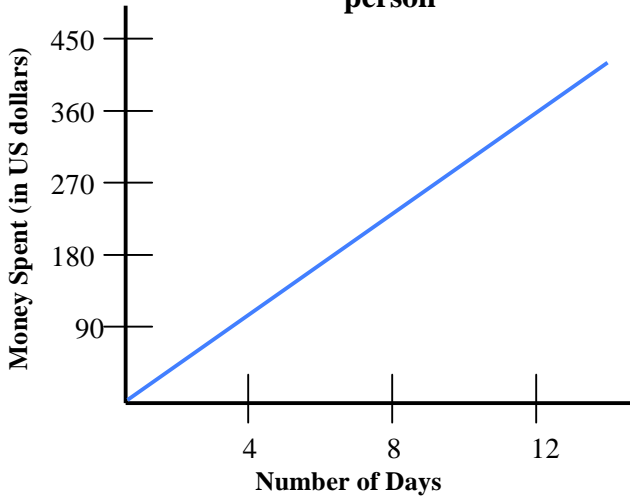
3. *Graph it!* Below construct a graph showing the amount of water (in liters) you will need for 1 person to survive over two weeks after an earthquake. Be sure to take into account the labels and to mark the scales accordingly.

**Amount of water needed for 1 person**

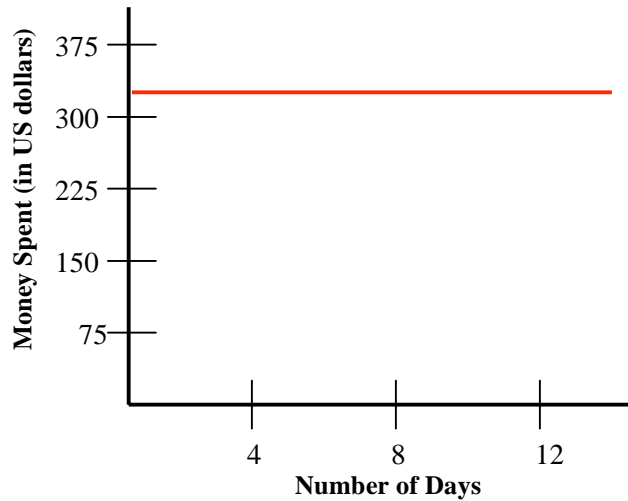


4. *Compare and Explain:* Below are two graphs. The first is for the amount of money spent on food and water needed to survive after an earthquake for one person over a two-week period. The second is for the amount of money spent on shelter needed to survive after an earthquake for one person over a two-week period.

**Total amount of money spent on food and water for one person**



**Total amount of money spent on shelter for one person**



1. How much money was spent on food and water after:

- a. 1 day? \_\_\_\_\_
- b. 5 days? \_\_\_\_\_
- c. 10 days? \_\_\_\_\_

2. How much money was spent on shelter after:

- a. 1 day? \_\_\_\_\_
- b. 5 days? \_\_\_\_\_
- c. 10 days? \_\_\_\_\_

3. Why do you think one of these graphs increases, while the other remains constant?

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