

Teacher \_\_\_\_\_  
Period \_\_\_\_\_

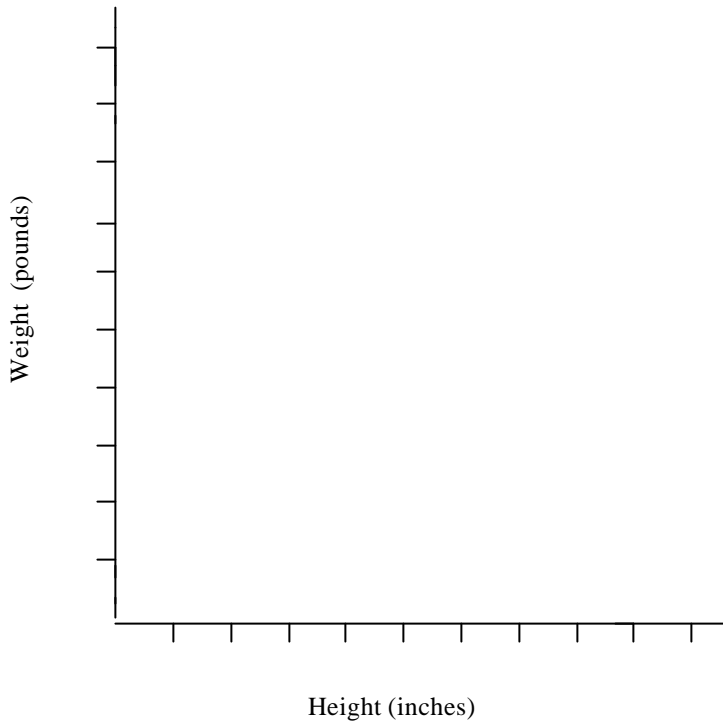
Names: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Scatter Plot

A scatter plot consists of data points. Each point represents 2 variables. For example, 15 students recorded their height and weight. See table below.

1. Plot the points from the table on the scatter plot. ( Do not connect the dots).

Scatter Plot of Height and Weight of Students



Height and Weight of Students	
Height (inches)	Weight (pounds)
64	130
68	180
74	185
66	150
68	150
72	200
69	160
65	125
71	220
65	165
69	220
72	180
71	190
64	120
65	110

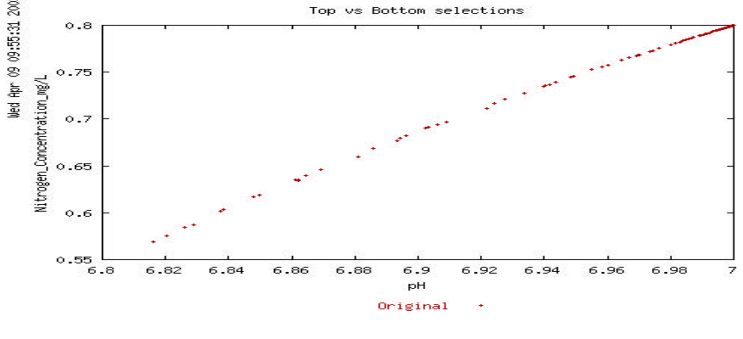
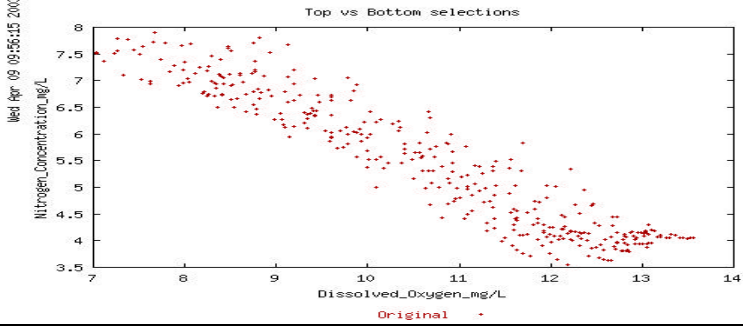
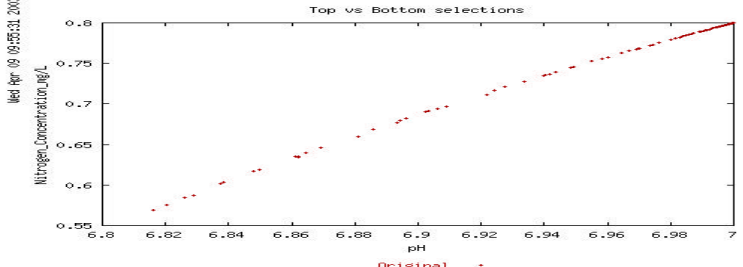
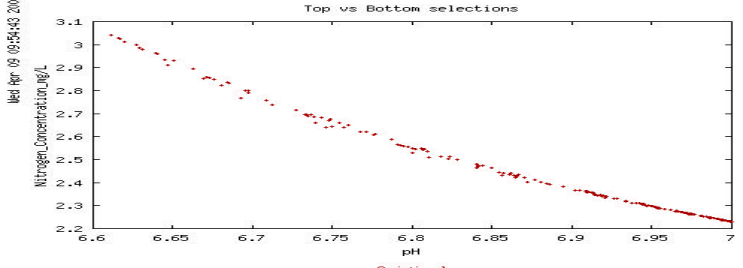
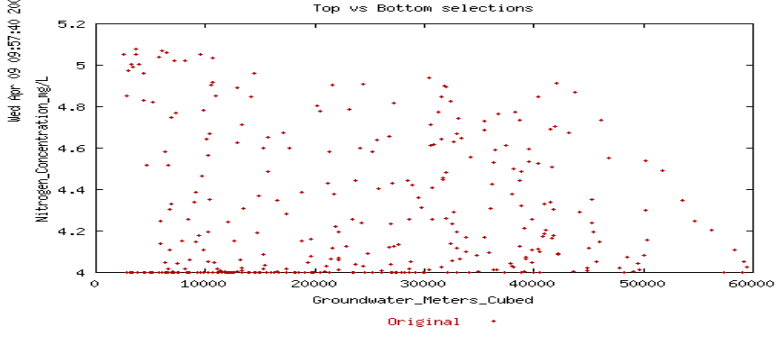
2. Complete this sentence:

The taller a person is, the \_\_\_\_\_ they weigh.  
(more/ less)

This scatter plot shows the relationship between height and weight

## Characteristics of scatter plot relationships

When using scatter plots we look at 3 characteristics of relationships: strong/weak, positive/negative or no relationship.

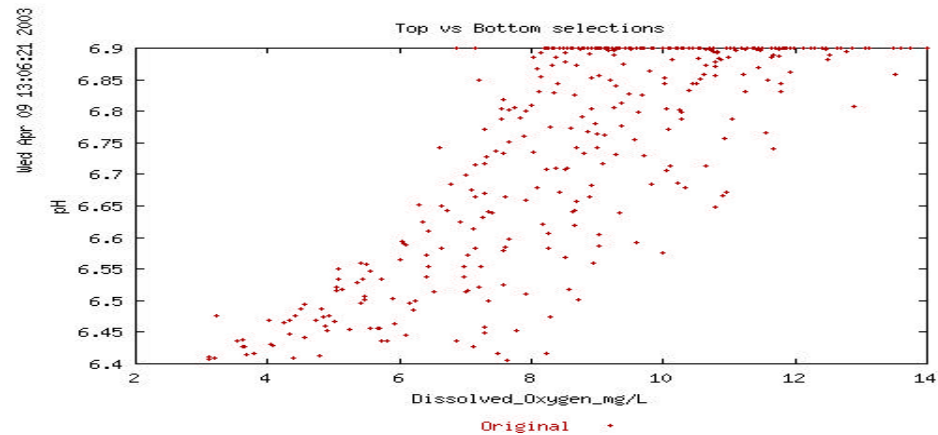
<p><b>Strong Relationship</b></p> <p>A strong relationship will contain data points along a narrow band—almost forming a line</p> <p>This graph shows a strong positive relationship.</p>	
<p><b>Weak Relationship</b></p> <p>A weak relationship will contain points in a wider band. The line formed will look like a broad band of data points.</p> <p>This graph shows a weak negative relationship.</p>	
<p><b>Positive Relationship</b></p> <p>A positive relationship shows both variables increasing. An example would be: The more hours I work, the more money I take home.</p> <p>This graph shows a strong positive relationship.</p>	
<p><b>Negative Relationship</b></p> <p>A negative relationship (-) shows one variable increasing and the other variable decreasing. An example is: The more money I spend, the less money I save.</p> <p>This graph shows a strong negative relationship.</p>	
<p><b>No Relationship</b></p> <p>If two variables do not demonstrate any relationship, the data points plotted will not form a line (narrow or broad). The graph will show data points in a random assortment throughout the graph.</p>	



# Describing Scatter Plots

Below you will see a group of scatter plots.  
Describe the graph using the characteristics specified.

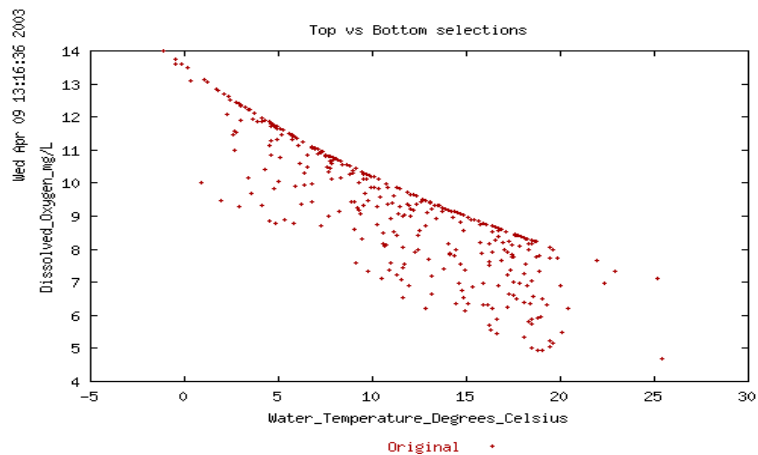
First circle the correct answer, then write your answer  
on the line below each graph.  
An example is provided



Example:

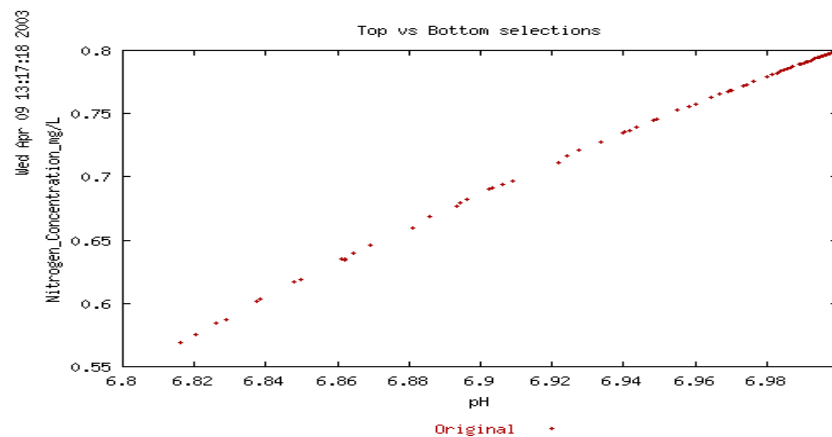
Strong /  Weak  Or  Positive  Negative  
No Relationship

D.O. and pH have a weak positive relationship



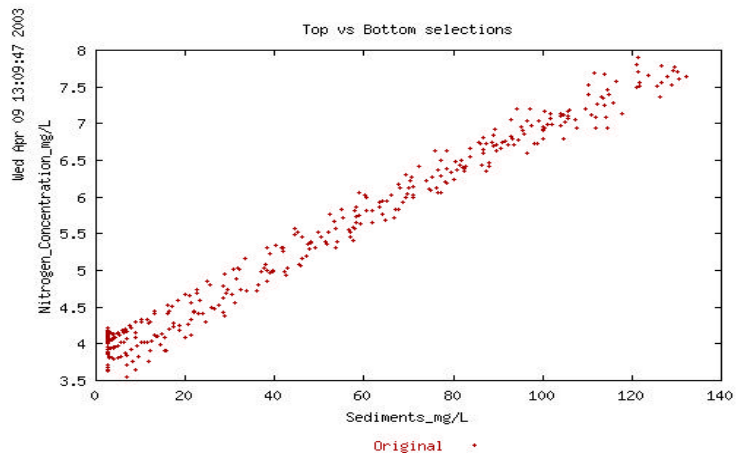
Strong/ Weak & Positive/ Negative  
Or  
No Relationship

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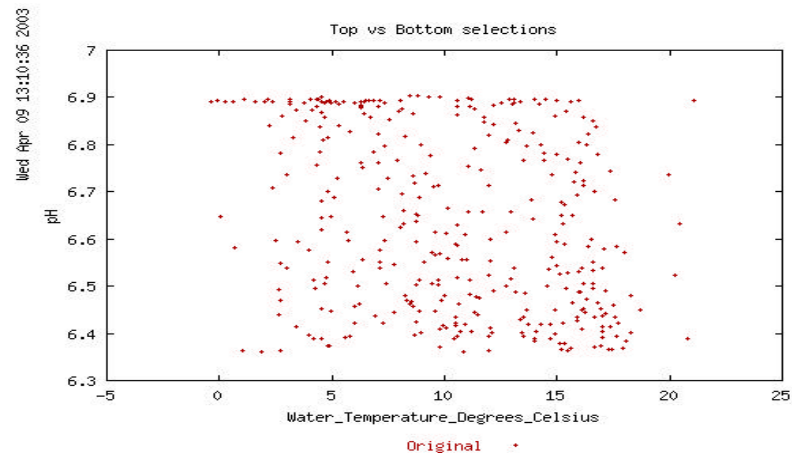
Strong/ Weak & Positive/ Negative  
Or  
No Relationship

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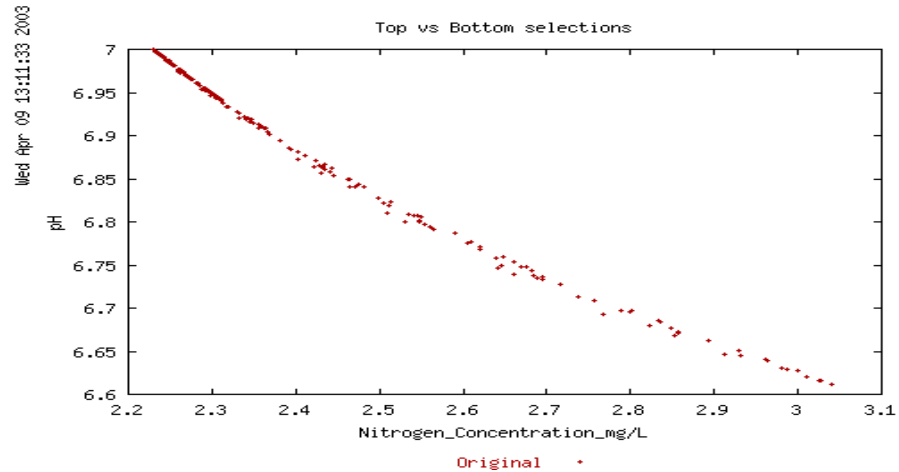
Strong/ Weak & Positive/ Negative  
Or  
No Relationship

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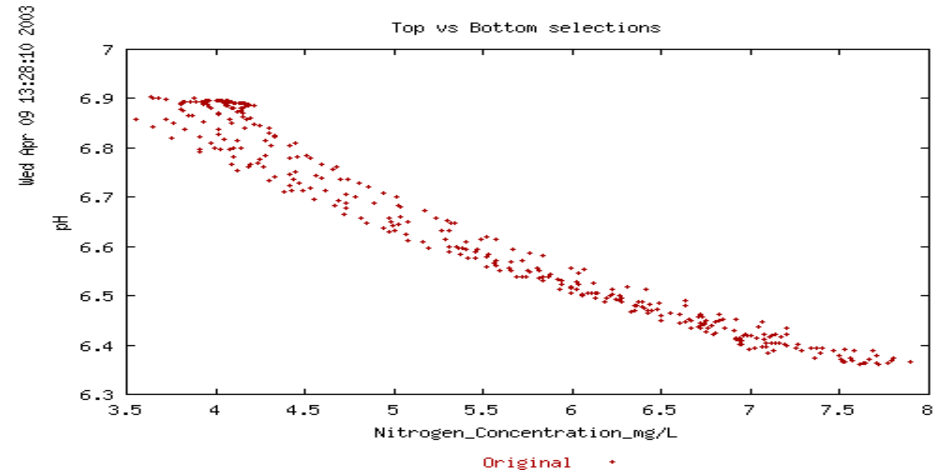
Strong/ Weak & Positive/ Negative  
Or  
No Relationship

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Strong/ Weak & Positive/ Negative  
Or  
No Relationship

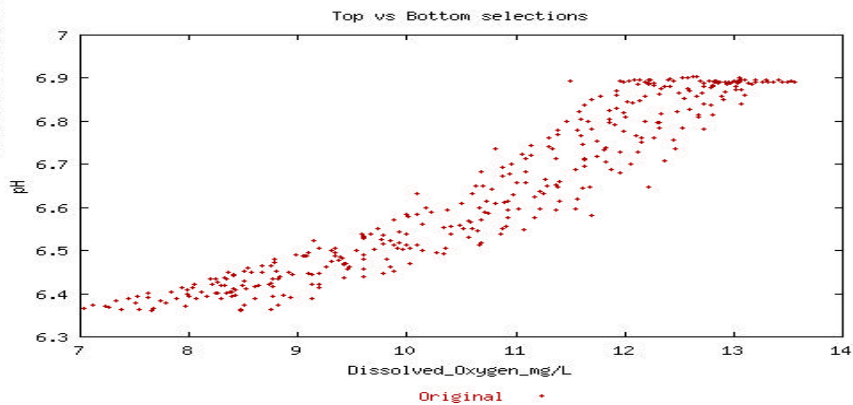
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Strong/ Weak & Positive/ Negative  
Or  
No Relationship

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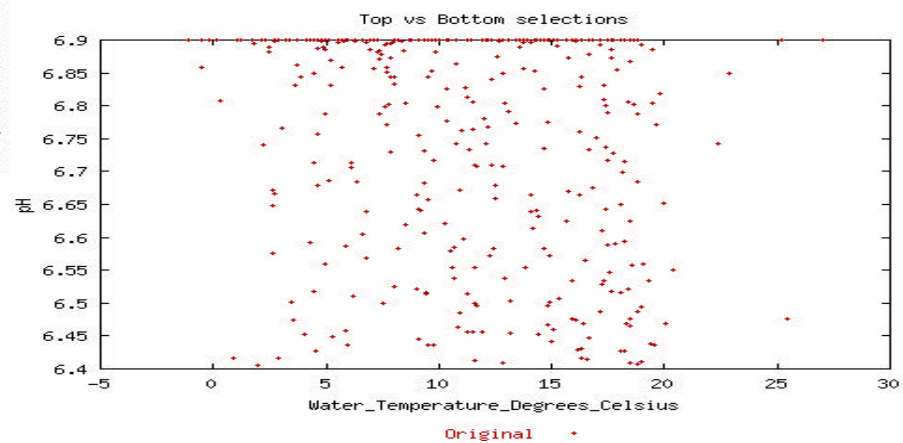
Wed Apr 09 13:30:04 2003



Strong/ Weak & Positive/ Negative  
Or No Relationship

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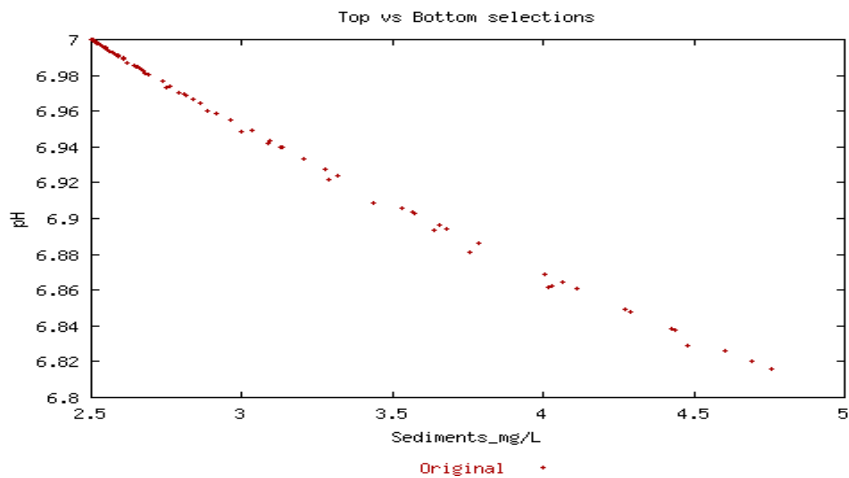
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Strong/ Weak & Positive/ Negative  
Or No Relationship

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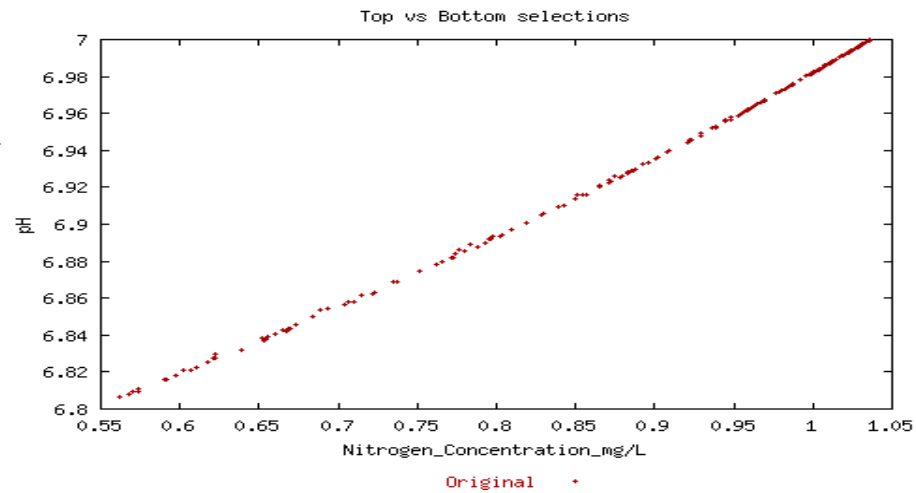
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Strong/ Weak & Positive/ Negative  
Or No Relationship

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Wed Apr 09 13:32:29 2003



Strong/ Weak & Positive/ Negative  
Or No Relationship

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