Name: _____ Section: _____

Working with Data

Directions: Read the passage below and follow the directions to help Jacob complete his experiment.

Jacob, a landscaper, wondered if a particular tree would grow better in the sun or in the shade. He hypothesized that the tree would grow better in the shade. To test his hypothesis, Jacob planted 10 trees in the shade and 10 trees in the sun. Over the next several months, Jacob watered and fertilized each tree in the exact same way. He also took measurements of the tree's height. The data he took is below.

Month	Height of Tree in the Sun (meters)	Height of Tree in Shade (meters)
April	0.2	0.2
May	0.5	0.5
June	0.8	0.6
July	1.1	0.7
August	1.4	0.9
September	1.8	1.0

1. Underline Jacob's hypothesis in the story above.
2. What factor was the independent variable in the experiment?

   _____
3. What factor was the dependent variable in the experiment?

   _____
4. Identify two constants in the experiment.

   _____
5. Was Jacob's hypothesis correct? Why or why not?

   _____

   _____
6. Construct a double line graph using the data above. Graph both sets of data on the same graph. Make sure your graph has a title, labeled x & y axis, the appropriate number scale and a key.