

Name: _____ # _____

Date: _____ Core: _____

Graphing Analysis and Practice

Part 1: Use the information below in the scenario and/or data tables to answer the questions.

Graph #1 John was interested in trying a new exercise plan to see if he could lose some weight. He exercised every other day for 30 minutes and continued to eat the same as he always did. John committed to this exercise plan for 10 weeks and recorded his weight every Monday morning in a data table.

The Effect of Adding Exercise Each Week on Weight

Week	Weight (lbs)
0	143
1	140
2	142
3	139
4	138
5	136
6	135
7	134
8	134
9	132
10	130

1. What is the dependent variable? _____
2. On which axis does the dependent variable go? _____
3. What is the independent variable? _____
4. On which axis does the independent variable go? _____
5. What is the range of your scale on the x-axis? _____
6. What is the range of your scale on the y-axis? _____
*should you use a break in axis to show this data? _____
7. What type of graph would go with this data? _____
(use graphing decision chart!)

Graph #2 A group of students is doing an experiment to test how tall plants grow in different mediums. The students plant the same type of corn plants in the varied mediums, put them in the same location, with controlled variables of water, temperature, light and time to grow. The data they collected is shown below.

The Effect of Different Mediums on the Height of a Corn Plant

Type of Medium	Height (cm)
Potting soil	14
Sand	12
Water	16
Milk	10
Dr. Pepper	0

8. What is the dependent variable? _____
9. What is the independent variable? _____
10. What type of graph would go with this data? _____
(use graphing decision chart!)
11. What type of medium yields the tallest corn? _____

Part 2: Graph #1 or #2 (your choice) using the graph paper provided and the graphing checklist.