Name:_____ Section:_____

Graphing

Directions: Refer to the graphs on the back of this sheet to answer the following questions.

1. Write the title of the graph(s) in the space provided.
   a. Which graph is a pie chart? _____
   b. Which graphs are bar graphs? _____
      _____
   c. Which graph is a line graph? _____

2. Why is the graph ***Elements in the Earth's Crust*** a pie chart and not a bar graph or line graph?

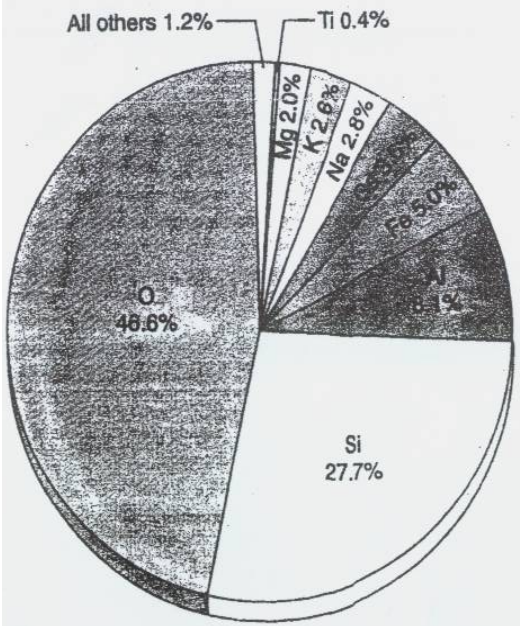
3. Referring to the graph ***Elements in the Earth's Crust***, silicon (Si) and oxygen (O) make up _____% of the Earth's crust.

4. Referring to the graph ***Mechanical Efficiency of Machines and Humans***…
   a. Which machine has the highest mechanical efficiency? _____
   b. What is the mechanical efficiency of a pulley system? _____
   c. Which machine has the least efficiency? _____

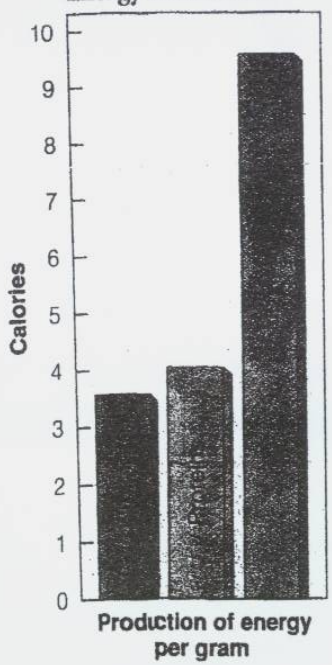
5. What is missing from the graph ***Average Maximum Daily Temperatures*** that makes it incomplete and misleading?

6. Refer to the data table called ***Speed of Sound***.
   a. What kind of graph would best represent this data? _____
   b. What would you label your x-axis (horizontal)? _____
   c. What would you label your y-axis (vertical)? _____
   d. What scale (numbers) would you use to label your y-axis? _____
   e. **Construct a graph using the Speed of Sound data table.**

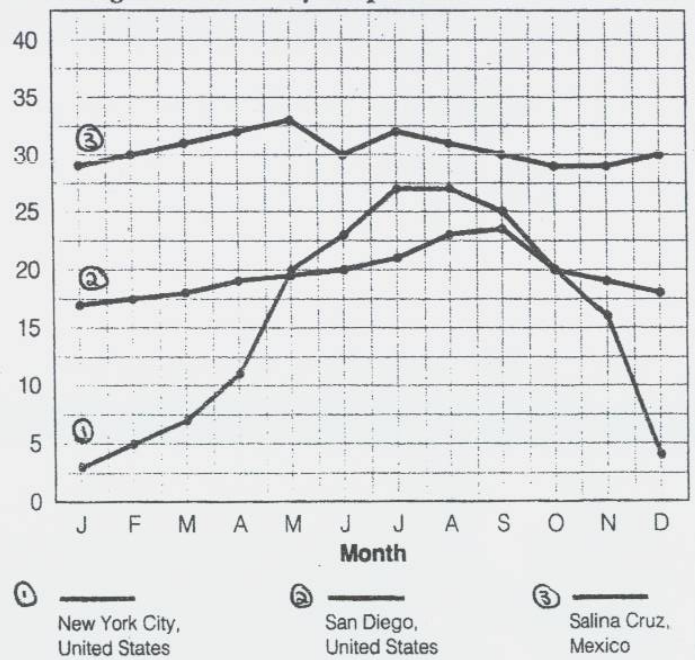
Elements in the Earth's Crust (in percent)



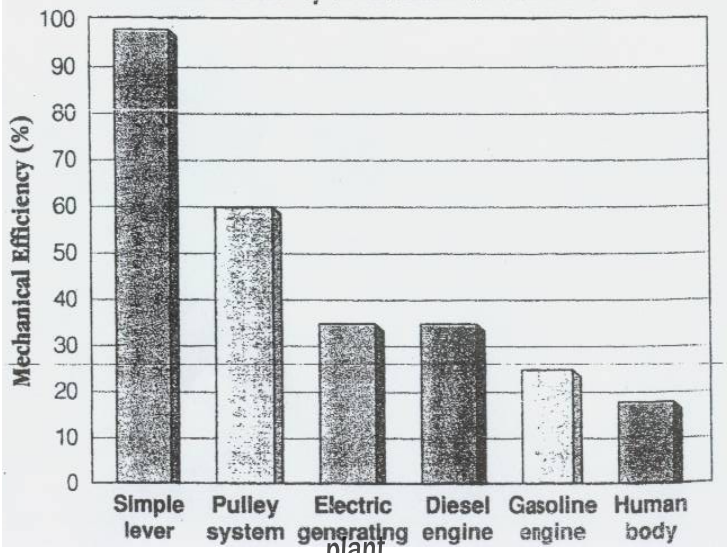
Energy Production



Average Maximum Daily Temperatures



Mechanical Efficiency of Machines and Humans



Speed of Sound

Material	Speed of Sound (m/s)
Air (0°C)	331
Helium (0°C)	965
Ethyl alcohol (25°C)	1207
Water (25°C)	1498
Copper	3800
Tempered glass	5170