Review Sheet: Chapter 1 & 2 Test: Measurement & the Scientific Process
Physical Science - Energy

Name_____Period___

1. How many significant digits are in the following measurements?
    a. 1300 m
    b. 3.20 g
    c. 0.00065 km
    d. 20 Fir trees
    e. 30 ml
    f. 30. ml
    g. 30.0 ml
2. Define the following terms:
    a. Objective evidence
    b. Significant digits
    c. Technology
    d. Engineer
    e. Distance
    f. English system

g. SI

h. Inquiry

3.

a. Scientific method

b. Deduce

c. Repeateable

d. Measurement

e. Precision

f. Accuracy

g. Resolution

h. Unit

i. Prototype

j. Experiment

k. System

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l. Variable

m. Experimental variable

n. Control variable

o. Trial

p. Hypothesis

q. Theory

r. Natural law

s. Graph

t. Direct relationship between variables

u. Inverse relationship between variables

v. Independent variable

w. Dependent variable

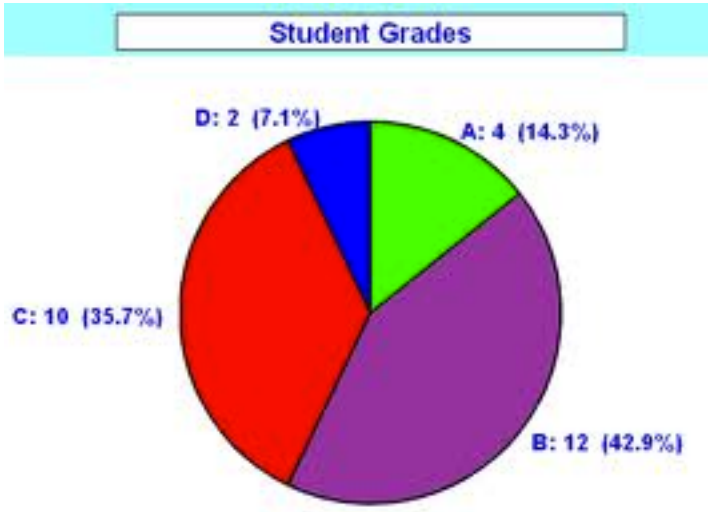
4.

a. Basic SI unit of length

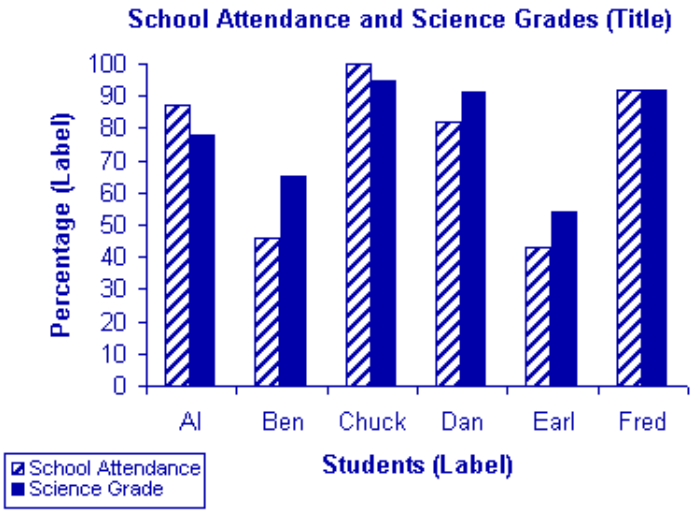
b. Basic SI unit of mass

c. Basic SI unit of liquid volume

5. What type of graph is illustrated below? What kind of data is shown in this type of graph?



6. What type of graph is illustrated below? What kind of data is shown in this type of graph?



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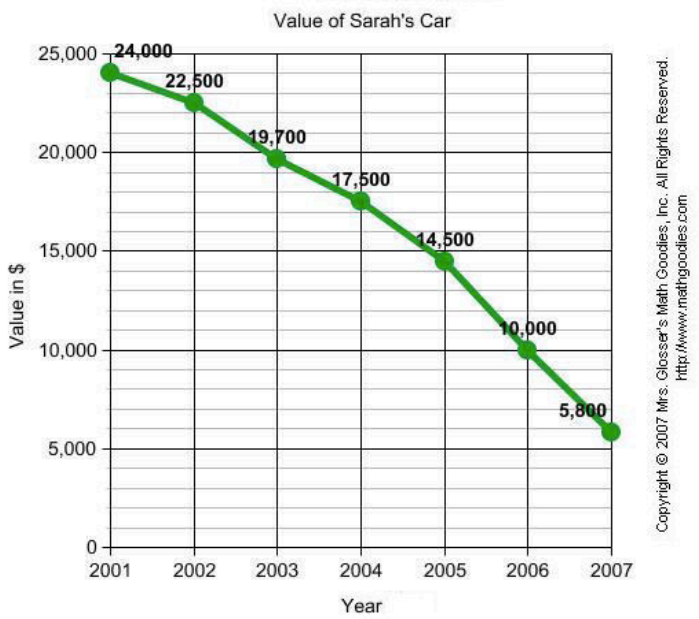
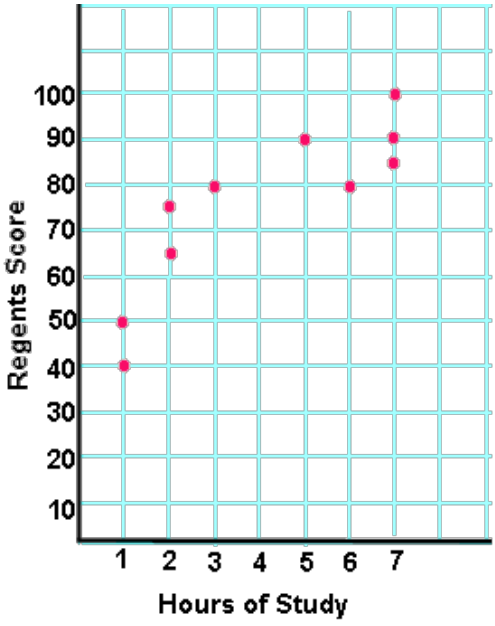
7. What type of graph is illustrated below? What kind of data is shown in this type of graph?



8. What type of graph is illustrated below? What kind of data is shown in this type of graph?



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9. Make the following conversions:

    a. 8550 mm = _____ m

    b. 0.3 cm = _____ mm

    c. 9450 g = _____ kg

    d. 800 mg = _____ g

    e. 150 mL = _____ L

    f. 0.00065 km = _____ mm

10. Which is largest? (circle the correct answer)

    Millimeter, decimeter, Dekameter, centimeter

11. Are scientific theories unchangeable? Why or why not?

12. What is the most important tradition in science?