

Review Sheet: Chapter 1 & 2 Test
 Integrated Science - Physics & Engineering Design

Name _____

1. How many significant digits are in the following measurements?

- a. 1300 m **2**
- b. 3.20 g **3**
- c. 0.00065 km **2**
- d. 20 Fir trees **infinite #**
- e. 30 ml **1**
- f. 30. ml **2**
- g. 30.0 ml **3**

2. What is the SI BASE unit of measure for the following quantities?

- a. Liquid volume **liter**
- b. Mass **gram**
- c. Length, distance **meter**

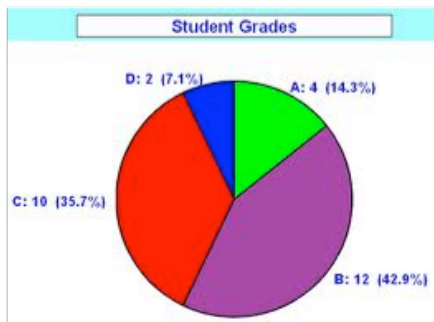
3. Define the following terms:

- a. Direct relationship **1 variable ^{incr.}, other v. incr.**
- b. Inverse relationship **1 variable ^{incr.}, other v. DECREASES**
- c. Variable **factor that affects experiment**
- d. Control **var. that remains const.**
- e. Hypothesis **possible explanation for observations**
- f. Theory **explanation backed by evidence gather over a long time.**
- g. Resolution **Smallest interval that can be measured**
- h. Precision **How close a group of measurements are to**
- i. Accuracy **How close meas. is to "true value" ^{ea. other}**
- j. Unit **fixed amt. of something**

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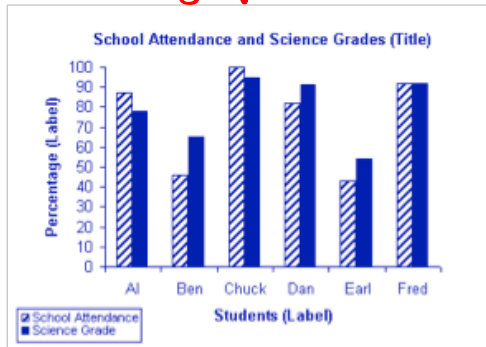
4. What type of graph is illustrated below? What kind of data is shown in this type of graph?

pie chart - percentages of a whole



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

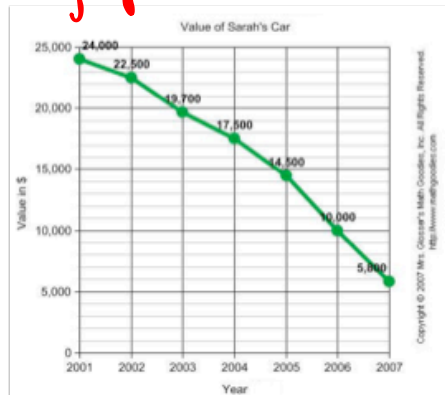
BAR graph - Compares groups of info.



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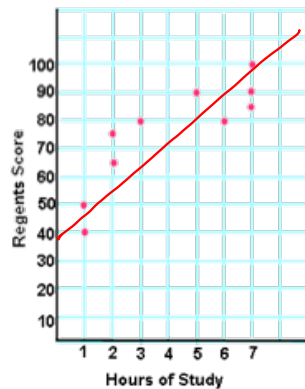
6. What type of graph is illustrated below? What kind of data is shown in this type of graph?

line graph - trends in data over time



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

Scatter plot - shows if 2 variables are related



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8. Make the following conversions:

a. 8550 mm = 8.55 m

b. 0.3 cm = 3 mm

c. 9450 g = 9.45 kg

d. 800 mg = 0.8 g

e. 150 mL = 0.15 L

f. 0.00065 km = 650 mm