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*
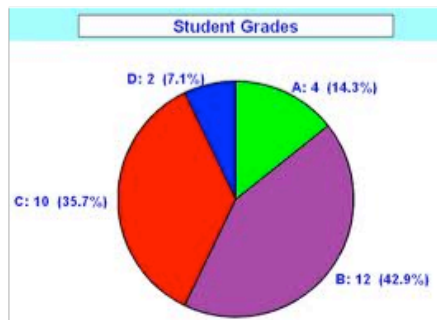
   b. Mass *gram*

   c. Length, distance *meter*

3. Define the following terms:

   a. Direct relationship *1 var. increases, other variable incr.*

   b. Inverse relationship *1 var. increase, other decr.*

   c. Variable *factor that affects outcome of exp.*

   d. Control *var. kept the same throughout*

   e. Hypothesis *possible explanation of obs. – can be tested*

   f. Theory *sci. expl. supported by lots of evidence*

   g. Resolution *smallest interval that can be measured*

   h. Precision *how close together a group of measurements are*

   i. Accuracy *how close meas. is to true value*

   j. Unit *fixed quantity of something*

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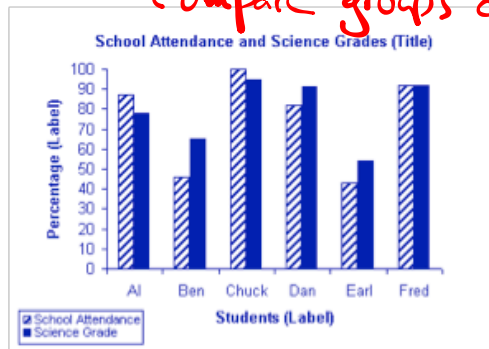Integrated Science – Physics & Engineering Design

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

- pie chart
- % of a whole

Student Grades

D: 2 (7.1%)   A: 4 (14.3%)

C: 10 (35.7%)

B: 12 (42.9%)

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

- Bar graph
- compare groups of data

School Attendance and Science Grades (Title)

Percentage (Label)
100
90
80
70
60
50
40
30
20
10
0

Al   Ben   Chuck   Dan   Earl   Fred

Students (Label)

☑ School Attendance
■ Science Grade
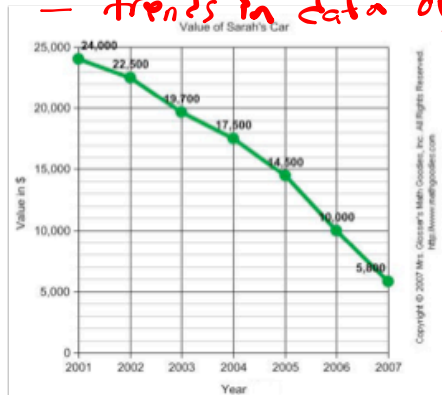
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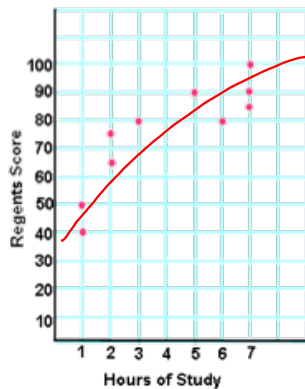Integrated Science – Physics & Engineering Design

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?

- scatterplot
- compares 2 variables - related?

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8. Make the following conversions:

a. 8550 mm = ___**8.550**___ m

b. 0.3 cm = ___**3**___ mm

c. 9450 g = ___**9.45**___ kg

d. 800 mg = ___**0.8**___ g

e. 150 mL = ___**0.150**___ L

f. 0.00065 km = ___**650**___ mm