

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
- b. 3.20 g
- c. 0.00065 km
- d. 20 Fir trees
- e. 30 ml
- f. 30. ml
- g. 30.0 ml

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

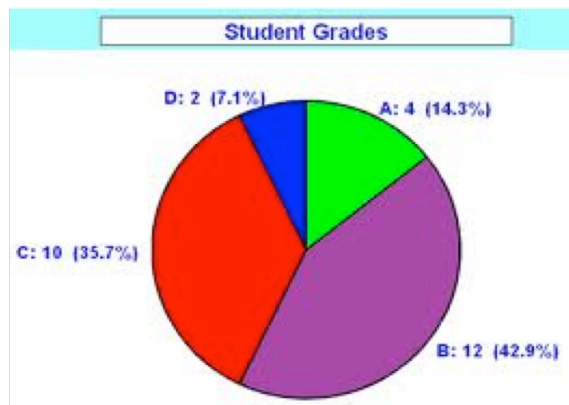
- a. Liquid volume
- b. Mass
- c. Length, distance

3. Define the following terms:

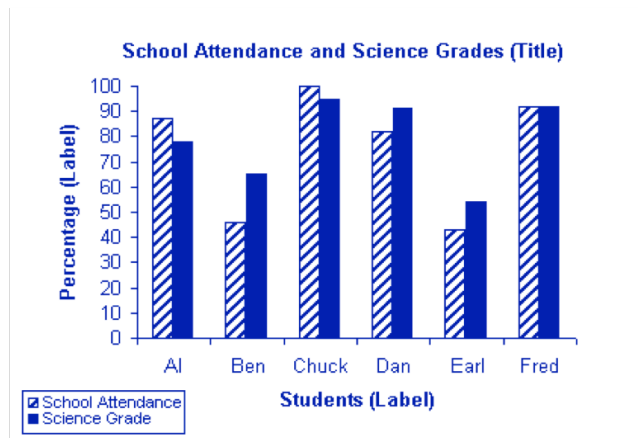
- a. Direct relationship
- b. Inverse relationship
- c. Variable
- d. Control
- e. Hypothesis
- f. Theory
- g. Resolution
- h. Precision
- i. Accuracy
- j. Unit

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

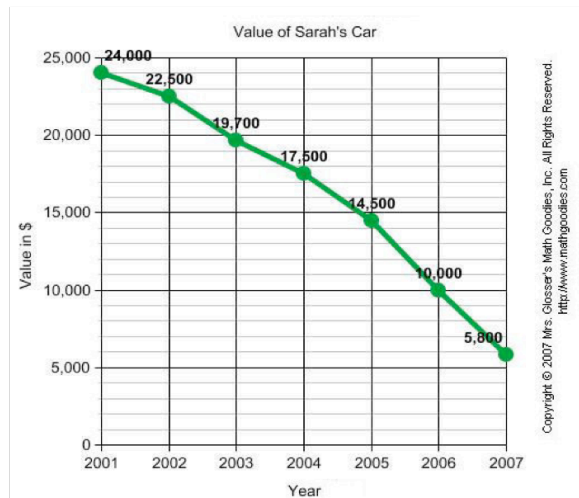


5. What type of graph is illustrated below? What kind of data is shown in this type of graph?

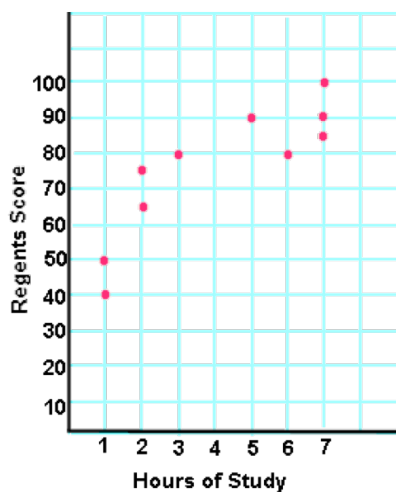


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6. What type of graph is illustrated below? What kind of data is shown in this type of graph?



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



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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*

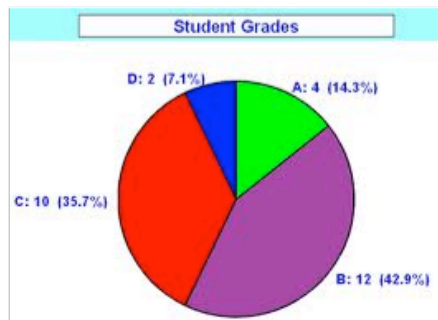
3. Define the following terms:

- a. Direct relationship *1 variable increases, other variable increases*
- b. Inverse relationship *1 variable increases other variable decrease*
- c. Variable
- d. Control *factors that affect how exp. work*
- e. Hypothesis *variables that are kept the same*
- f. Theory *possible explanation that can be tested*
- g. Resolution *sci. explan. supported by lots of evidence*
- h. Precision *Smallest interval that can be measured over a long period of time*
- i. Accuracy *How close repeated measurements are to each other*
- j. Unit *How close meas. is to "true" value*
↳ a fixed amount

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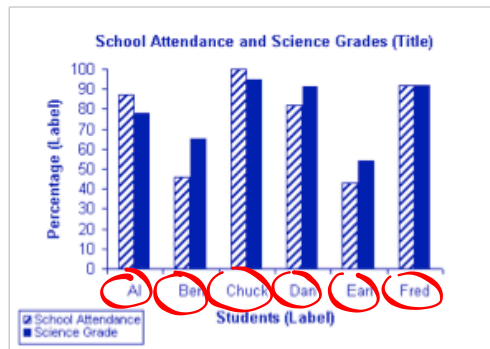
4. What type of graph is illustrated below? What kind of data is shown in this type of graph?

Pie chart - How a whole is divided into %



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

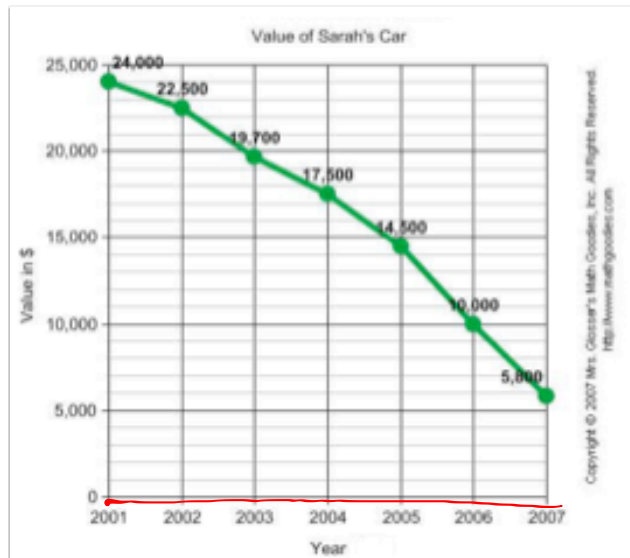
BAR - COMPARES GROUPS OF INFO.



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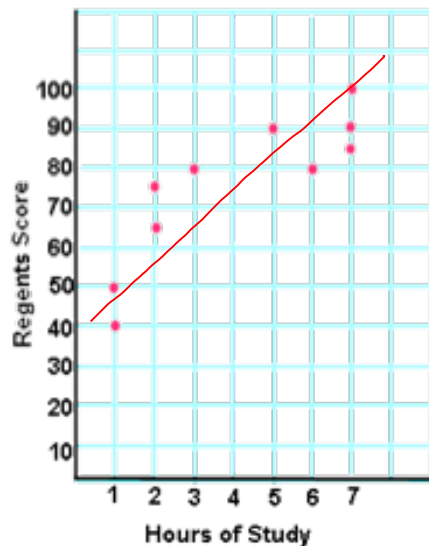
6. What type of graph is illustrated below? What kind of data is shown in this type of graph?

LINE - show 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 - show if there's a relationship between variables



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8. Make the following conversions:

- a. $8550 \text{ mm} = \underline{8.550} \text{ m}$ (8.55)
w
- b. $0.3 \text{ cm} = \underline{3} \text{ mm}$
- c. $9450 \text{ g} = \underline{9.450} \text{ kg}$ (9.45)
w
- d. $800 \text{ mg} = \underline{0.800} \text{ g}$ (0.8)
w
- e. $150 \text{ mL} = \underline{0.150} \text{ L}$ (0.15)
w
- f. $0.00065 \text{ km} = \underline{650} \text{ mm}$
w