

Communicating with Graphs

Why Graph?

A graph is a _____
of information or data.

It is used to _____.

3 Types of Graphs

• 1) Circle Graph

used for _____,
_____, or _____



2) Bar Graph

used for _____
or information collected by _____



3) Line Graph

used for comparing _____
or showing _____.



Variables on a line graph

a **VARIABLE** is any
_____, or thing that

> INDEPENDENT VARIABLES

> DEPENDANT VARIABLES

Independent variable

⊙ This is the variable we

_____ in an experiment.

x	y

⊙ In a "T" table, or data table, this variable is on the _____

⊙ On a graph, this variable goes on the _____



• Some books call the independent variable the _____ variable, because _____ or set it to our specifications

Dependent variable

⊙ This is the variable we have to _____ in an experiment.

⊙ Dependent variables are _____ during the experiment, after you start following your procedures

⊙ In a "T" table, or data table, this variable is on the _____

x	y

⊙ On a graph, this variable goes on the _____



Dependent variable

⊙ Some books call the dependent variable the _____ variable, because it _____ you are following. We can't chose what the data will be.

Rules of graphing

Follow these simple rules for
GREAT GRAPHS

Rule # 1

- 1. Always draw neat lines with a _____ or ruler
(*sometime you will need to draw a "best fit" line*)

Rule # 2

- Make your graph 1/2 page or _____ in size.
- Small graphs are too _____ or _____ results of your experiment.

Rule # 3

- Label three places on your graph.
 1. _____
 2. label the x-axis with the _____
 3. label the y-axis with the _____

Rule # 4

- Number the x and y axis with a _____ or pattern starting with 0 to space out your data so it fills the entire graph
 - > examples: _____, _____, _____, _____, _____
 - > 0, 2, 4, 6, . . ., 0, 0.5, 1.0, 1.5, 2.0

Rule # 5

- Number the x and y axis on the _____ of the graph, _____ between the lines



Rule # 6

- If your graph shows more than one trial of data, or has more than 1 line, USE A _____
- A key can be different _____, lines with different textures or patterns.

Check your understanding

1. What is the independent variable?
2. What is the dependent variable?
3. What general information is displayed on this graph?

