

DATA TABLES

1. Descriptive Title
2. 1st Column=IV and 2nd column=DV (can have multiple DV's)
3. Every variable should be labeled and have an unit in parenthesis
4. Chart used to organize data-used to create graphs

GRAPHS

Graphs are pictures of the data. Use pencil to create graphs.

Three Types of Graphs

1. Line graph-plot 2 variables (time is often one of the variables)
2. Bar graphs-plot totals or averages.
3. Pie Graph-plot percentages

Line & Bar Graph Parts (similar to data table)

1. Descriptive Title
2. Label axis with variable & units (in parenthesis)
 - A. Line graph
 1. X-axis: label with independent variable & unit
 2. Y-axis: label with dependent variable & unit
 - B. Bar graph
 1. X-axis: label with name of items being compared
 2. Y-axis: label with dependent variable's total or average
3. EQUAL INCREMENTS when numbering the axes.
 - A. Always start each axis at ZERO.
 - B. On data table, circle the highest value for IV and DV.
 - C. Count by equal increments from 0 to highest number and write increments on each axis.
4. Plot all points of IV & DV and connect with line. If multiple DV's, plot next DV on same graph.
5. Color lines/bars and make keys for easy reading. Key should be on graph.

CIRCLE GRAPH-SHOW PERCENTAGES

Percentages & angles need to be calculated.

Show all work for credit-show every number entered in the calculator.

How to Create

1. Add all the DV to get a total.
2. Create a fraction using the largest number. (number/ total).
3. Divide fraction to get decimal. Round to thousandths.
4. Multiply decimal by 100 to get PERCENTAGE. (Label as % & label on graph later).
5. Multiply same decimal by 360 to get ANGLE. (Label as ° & use to draw angles on circle).
6. Draw circle and one radius line at the 3:00 position.
7. Use protractor to measure & draw largest angle calculated.
8. Label with DV & percentage. Print labels horizontally..
9. Repeat steps #2-#8 for the second largest angle. Draw angle using last line draw (shares line w/previous angle).
10. Color when finished and give descriptive title.