

Graphing Assignment

You will set a goal for yourself with regard to what kind of grade you would like to earn with this unit. We will be working on this during class as well as outside of class. Not only will you need to complete the different graphs, but they will need to be neatly done and with good quality responses. If one is completed in each category, then you earn an S-, if two are completed, then S, if three are completed, then S+ and so on.

Frequency Table

- ◇ In class data collection, in class activity
- ◇ Worksheet 7- 4 (two sided)
- ◇ Create your own survey, collect data
- ◇ Choose three words in a song and record the frequency they are said for one minute

Line Plot

- ◇ Line plot the first 100 numbers of Pi – in class activity, sheet will be provided
- ◇ Spinning a color spinner, - in class activity, sheet will be provided
- ◇ Worksheet 7-3 (two sided)
- ◇ Rolling Two Dice (50 times) – sheet will be provided

Bar Graphing

- ◇ Measuring the objects in class activity – sheet is provided
- ◇ Likert Scale questions – sheet and time will be provided
- ◇ Sample survey with 5 different categories – no sheet provided (interview a minimum of 20 people)
- ◇ Sample survey with 6 or more different categories – no sheet provided (interview a minimum of 20 people)

Scales and Intervals

- ◇ Weigh the different objects and record results in a frequency table
- ◇ Measure the different lines and record results in a frequency table
- ◇ Worksheet 7-5 (two sided)
- ◇ Create a frequency table of the average temperatures for Jan – data will be given

Leaf and Stem Plots

- ◇ Using a sample data set to complete one together in class
- ◇ Measuring weight and creating a leaf and stem plot – sheet will be provided
- ◇ Measuring length of lines in cm and creating a leaf and stem plot – sheet will be provided
- ◇ Collecting your own data (such as heights of 20 people in inches) and create leaf and stem plot

Line Graphs

- ◇ Start/Stop Test – in class, sheet will be provided
- ◇ Sunrise times – in class, sheet will be provided
- ◇ Math worksheet 7-7 (two sided)
- ◇ On-Line Short Term Memory Game – Sheet will be provided

Circle Graphs

- ◇ Use the information from the weights of objects to create a circle graph
- ◇ Using the information from the Likert scale to create a circle graph
- ◇ Take one of your other data sets and create a circle graph from it
- ◇ Take one of your other data sets and create a circle graph from it

Using the Appropriate Graph

- ◇ CPS Database Activity in class
- ◇ Worksheet 7-8 (two sided)
- ◇ Worksheet – make the appropriate graph “wolves/rabbits”
- ◇ Worksheet – make the appropriate graph “temps in PR and MN”

Mean, Median, Mode and Range

- ◇ Standing long jump – collect data and calculate, sheet will be provided
- ◇ How far can you flick a pocker chip? – collect data, calculate
- ◇ How many sit ups can you do in one minute?
- ◇ WS 7-1 (two sided)

Graphing on the Computer

- ◇ Make a bar graph (use data from previously done activities)
- ◇ Make a circle graph (use data from previous activities)
- ◇ Make a line graph (use data from previous activities)
- ◇ Make any graph from any data, make sure it is an appropriate one

Start/Stop Test (Reaction Time Test)

1. Go to the website: faculty.washington.edu/chudler/chgames.html
2. Scroll down to the "On-Line Response Time Experiments"
3. Click on the Start/Stop Test
4. Read through all of the directions
5. Complete the experiment
6. Record your results on the given data table
7. Create a line graph of your results with the "round" along the x-axis and the time on the y-axis
8. Answer the questions: Did practice affect your time? Why or why not? How can you tell?

Round for reaction	Time in seconds
First	
Second	
Third	
Fourth	
Fifth	

