

## Math 075 Project#3

### Quantitative Data Analysis for Bell Shaped Data Group Poster

**Directions:** *The class will be separated into groups. Each group is required to pick a “team name” for their group and analyze 1 quantitative data set from the math 075 Bell Shaped Project 3 Data, create a poster summarizing their findings, and present the poster to other students in the class.*

*Each group will have a different topic and will pick one of the following data sets from the math 075 Bell Shaped Project 3 Data to present it to their classmates: Male Body Temp Degrees Fahrenheit, Female Body Temp Degrees Fahrenheit, North Territory Australia Weekly Salary Dollars, Tasmania Australia Weekly Salary Dollars, Chicks Weight Gain (in grams) after 20 days on Nomal Corn, January minimum temperature in degrees Fahrenheit of various U.S. Cities, Percent of Female Students at Universities around the world, Salamander Total Length (cm), Fat (grams ) Fast Food Breakfast Items, Soil Surface temperature (degrees Celsius) in Comanche, Texas, NBA All-Stat Height data (inches).*

#### The Poster Should Have

- **Group/Team Name**
- **First and Last Name of each team members on the poster**
- **Why is this data important or interesting to your group?**
- **Graph from Software: Histogram and Dot Plot**
- **Sample Statistics from Software: Mean, Standard Deviation, Min, Max**
- **What is the data measuring?**
- **What are the units?**
- **How many numbers are in the data set : sample size (n)**
- **Shape**
- **Center (Mean): Write a sentence to explain the mean.**
- **Average (Mean)**
- **Spread (Standard Deviation): Write a sentence to explain the standard deviation.**
- **Two numbers that typical values fall in between (Mean – Stand Dev , Mean + Stand Dev)**
- **Calculate Unusually high cutoff (Mean + 2 x Stand Dev)**
- **List all unusually high values in the data set (Find these on the dot plot.)**
- **Calculate Unusually low cutoff (Mean – 2 x Stand Dev)**
- **List all unusually low values in the data set (Find these on the dot plot.)**
- **Decorate Poster**

#### Presentation

*Make sure each person on the team understands the poster and can present your findings. Bring your poster to a designated presentation area in the classroom and hang or tape your poster to a wall. One person at a time will present the poster. We will then rotate so that each member of the team gets to present. Everyone else will listen to presentations and give feedback.*