**Box-and-Whisker Plots NOTES Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

What makes up a box plot?

The box plot is placed either \_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_ a number line, \_\_\_\_\_\_ on the number line

What are those terms? #1-5 are called a “five number summary.”

#1: Median - The \_\_\_\_\_\_\_\_\_\_\_ value when the data is \_\_\_\_\_\_\_\_\_\_\_\_\_\_

#2: Lower/First Quartile (LQ) - The \_\_\_\_\_\_\_\_\_\_\_ value of the \_\_\_\_\_\_\_\_\_\_\_\_ half of the data

#3: Upper/Third Quartile (UQ) - The \_\_\_\_\_\_\_\_\_\_\_ value of the \_\_\_\_\_\_\_\_\_\_\_\_ half of the data

#4: Lower Extreme (LE) - The \_\_\_\_\_\_\_\_\_\_\_ value

#5: Upper Extreme (UE) - The \_\_\_\_\_\_\_\_\_\_\_ value

#6: Interquartile Range (IQR) - The \_\_\_\_\_\_\_\_\_\_\_ between the \_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_ quartiles.

#1Example: **24, 20, 18, 25, 22, 32, 30, 29, 35, 30, 28, 24, 38**

**1st** Put the data \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **2nd** Find the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**3rd** Find the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4th** Find the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **5th** Find the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**6th** Find the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Create** the box-and-whisker plot for this data on the top of the **next page**…

LE \_\_\_\_\_\_\_ LQ \_\_\_\_\_\_\_\_ Median\_\_\_\_\_\_\_\_ UQ \_\_\_\_\_\_\_\_\_ UE\_\_\_\_\_\_\_\_\_\_

Make the box plot:

Interquartile Range: \_\_\_\_\_\_\_ - \_\_\_\_\_\_\_ = \_\_\_\_\_\_\_

From LE to LQ is \_\_\_\_\_\_\_% of the data From Median to UQ is \_\_\_\_\_\_\_% of the data

From LQ to Median is \_\_\_\_\_\_\_% of the data From UQ to UE is \_\_\_\_\_\_\_% of the data

Finding Information from a Box Plot



1. What is the median? \_\_\_\_\_\_\_ 2. What is the upper quartile? \_\_\_\_\_\_\_

3. How many people were surveyed? \_\_\_\_\_\_\_ 4. What is the IQR? \_\_\_\_\_\_\_\_

5. What is the range of the data? \_\_\_\_\_\_ 6. What is the mean? \_\_\_\_\_\_\_\_\_



1. What is the lower quartile? \_\_\_\_\_\_\_ 2. What is the upper quartile? \_\_\_\_\_\_\_

3. What is the range of the data? \_\_\_\_\_\_\_ 4. What is the IQR? \_\_\_\_\_\_\_\_

5. What percent of the data falls between 8 and 12? \_\_\_\_\_\_

6. What percent of the data is more than 15? \_\_\_\_\_\_