Introductory Statistics | Section 1.7a – Day 1 | Name:_____

Calculating Outliers

Calculate the Interquartile Range $(Q3 - Q1)$ for each set of data.
Then determine the interval for the inner fences: Lower $(1st\ Q - IQR \cdot 1.5)$, Upper $(3rd\ Q + IQR \cdot 1.5)$
Identify any outliers.

1. 23, 25, 27, 28, 29, 33, 37, 40, 44, 51, 70

   IQR: _____ $IQR \cdot 1.5$:_____ Inner Fences: (_____ , _____)

   Outliers: _____

2. 5, 10, 15, 20, 25, 30, 35, 40, 45, 50

   IQR: _____ $IQR \cdot 1.5$:_____ Inner Fences: (_____ , _____)

   Outliers: _____

3. 18, 22, 40, 55, 67, 72, 75, 82, 87, 88, 90, 92

   IQR: _____ $IQR \cdot 1.5$:_____ Inner Fences: (_____ , _____)

   Outliers: _____

4. 46, 70, 71, 72, 73, 79, 79, 79, 80, 81, 81, 83, 85, 88, 90

   IQR: _____ $IQR \cdot 1.5$:_____ Inner Fences: (_____ , _____)

   Outliers: _____

5. -1.15, -0.9, -0.81, -0.72, -0.45, -0.35, -0.22, -0.15, -0.1, -0.1, 0.64, 2.16

   IQR: _____ $IQR \cdot 1.5$:_____ Inner Fences: (_____ , _____)

   Outliers: _____

6. Take the data we collected from the Cheerio activity and determine if any of the data values are outliers.

IQR: _____ $IQR \cdot 1.5$:_____ Inner Fences: (_____ , _____)

Outliers: _____