Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_

**Topic:** Sample Size and Introduction to the Central Limit Theorem **Class Website**: msgiwa1.weebly.com

For the following data set, describe whether data has a normal distribution, is left skewed or right skewed by examining a dot plot, histogram, box and whisker plot and what we know about the relationship between the mean and median.

1. snack prices: $0.99 $0.85 $1.05 $3.25 $1.49 $1.35 $2.79 $1.99

Dot Plot

Histogram

Box and Whisker Plot

Mean: \_\_\_\_ is \_\_\_\_ Median: \_\_\_\_ Distribution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2.** ticket buyers: 220 102 88 98 178 67 42 191 89

Dot Plot

Histogram

Box and Whisker Plot

Mean: \_\_\_\_ is \_\_\_\_ Median: \_\_\_\_ Distribution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**3.** marathon race finishers: 3,869 3,981 3,764 3,786 4,310 3,993 3,258

Dot Plot

Histogram

Box and Whisker Plot

Mean: \_\_\_\_ is \_\_\_\_ Median: \_\_\_\_ Distribution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**10.** winning times (min): 148 148 158 149 164 163 149 156

Dot Plot

Histogram

Box and Whisker Plot

Mean: \_\_\_\_ is \_\_\_\_ Median: \_\_\_\_ Distribution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**11.** ticket prices: $25.50 $45 $24 $32.50 $32 $20 $38.50 $50 $45

Dot Plot

Histogram

Box and Whisker Plot

Mean: \_\_\_\_ is \_\_\_\_ Median: \_\_\_\_ Distribution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**12.** head circumference (cm): 60.5 54.5 55 57.5 59 58.5 58.5 57 56.75 57

Dot Plot

Histogram

Box and Whisker Plot

Mean: \_\_\_\_ is \_\_\_\_ Median: \_\_\_\_ Distribution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_