

**Math 6**  
**Unit 6: Statistics Post-Test REVIEW**



Name \_\_\_\_\_

Date \_\_\_\_\_

1. What are the measures of center? \_\_\_\_\_

How do you calculate the mean? \_\_\_\_\_

\_\_\_\_\_

How do you calculate the median? \_\_\_\_\_

\_\_\_\_\_

2. What are the measures of spread? \_\_\_\_\_

How do you calculate the range? \_\_\_\_\_

How do you calculate the interquartile range (IQR)? \_\_\_\_\_

\_\_\_\_\_

3. What do you look for in the shape of data? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4. Big Bob scored the following points at eight basketball games: 21, 24, 9, 11, 16, 7, 24.  
Calculate the following:

MEAN	
MEDIAN	
MODE	
RANGE	

5. What is a statistical question? \_\_\_\_\_

Give an example: \_\_\_\_\_

Give a non-example: \_\_\_\_\_

6. Use the following data to create a box plot:

Ages of Students Who Downloaded "Divergent"								
10	18	17	12	13	15	15	14	14

**Identify:**

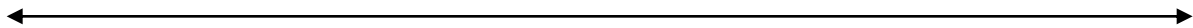
Minimum: \_\_\_\_\_

Lower Quartile: \_\_\_\_\_

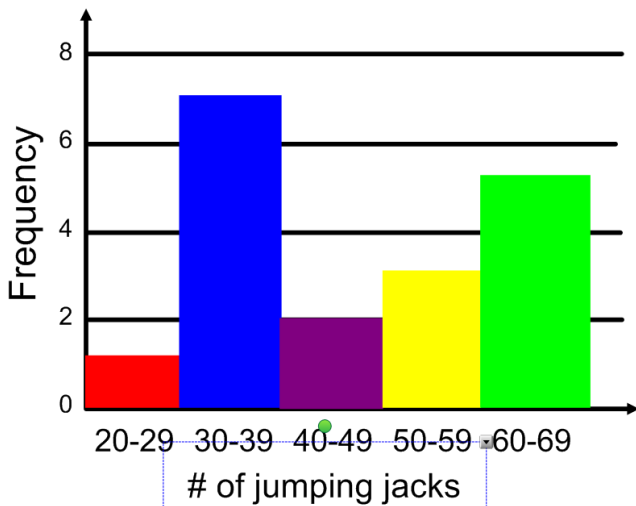
Median: \_\_\_\_\_

Upper Quartile: \_\_\_\_\_

Maximum: \_\_\_\_\_



Number of Jumping Jacks in 1 Minute



7. According to the histogram on the left, how many students can do more than 49 jumping jacks in 1 minute? \_\_\_\_\_

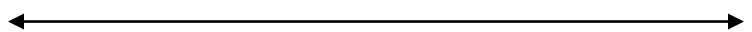
8. How many students participated in the survey? \_\_\_\_\_

9. Which interval is the mode of the histogram? \_\_\_\_\_

10. How many people did EXACTLY 45 jumping jacks? \_\_\_\_\_

11. Create a dot plot of the following data:

Sit-Ups Completed by Students During a Fitness Test					
13	13	10	14	15	12
17	12	18	14	15	12



12. Circle the set of intervals CAN be used for the data given in problem # 11. Explain why the others cannot be used.

A. 0-3, 4-7, 8-11, 12-15, 16-19 \_\_\_\_\_

B. 0-1, 2-5, 6-7, 8-18 \_\_\_\_\_

C. 1-2, 3-4, 5-6, 7-8, 9-10 \_\_\_\_\_

D. 0-5, 5-10, 10-15, 15-20 \_\_\_\_\_

13. Which measure is MOST affected by an outlier?

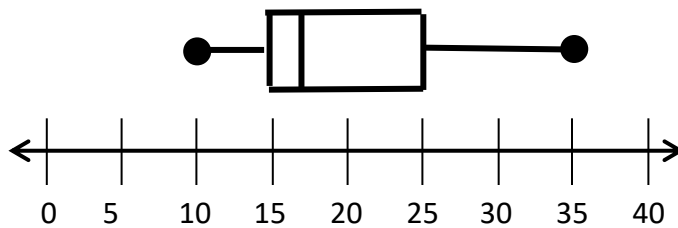
A. Mean

B. Median

C. IQR

D. Mode

14. Identify the interquartile range from the box plot below. \_\_\_\_\_



15. Look at the box plot in #14. Answer the following:

a. Minimum = \_\_\_\_\_ b. lower quartile (Q1) = \_\_\_\_\_ c. median = \_\_\_\_\_

d. upper quartile (Q3) = \_\_\_\_\_ e. maximum = \_\_\_\_\_ f. range = \_\_\_\_\_

g. What percent of data is 15 or greater? \_\_\_\_\_

h. What percent of data is between 15 and 25? \_\_\_\_\_

i. The data is (circle one): symmetrical      skewed right      skewed left