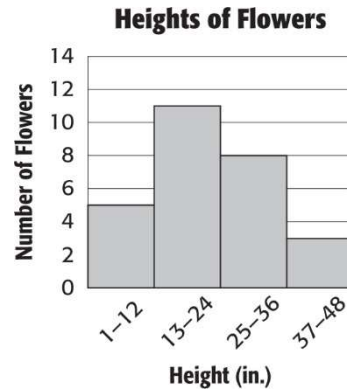


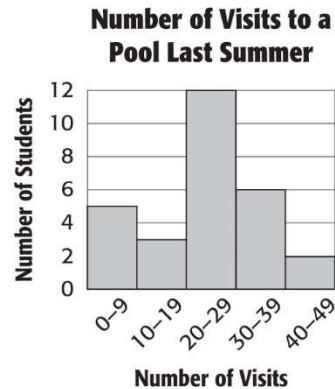
For Exercises 6 – 9, use the histogram at the right.

- 6) Which interval represents the least number of flowers?
- 7) Which interval has 5 flowers?
- 8) How many flowers are 24 inches tall or shorter?
- 9) How many flowers are at least 37 inches tall?



For Exercises 10 – 13, use the histogram shown at the right.

- 10) Which interval represents the most number of students?
- 11) Which interval has three students?
- 12) How many students went to a pool at least ten times last summer?
- 13) How many students went to a pool less than ten times last summer?



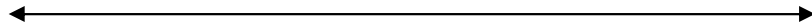
## Unit 6 Study Guide

- 1) What are the measures of center? \_\_\_\_\_  
\_\_\_\_\_
- 2) How do you calculate the mean? \_\_\_\_\_  
\_\_\_\_\_
- 3) How do you calculate the median? \_\_\_\_\_  
\_\_\_\_\_
- 4) What are the measures of spread? \_\_\_\_\_  
\_\_\_\_\_
- 5) How do you calculate the range? \_\_\_\_\_  
\_\_\_\_\_
- 6) How do you calculate the interquartile range (IQR)? \_\_\_\_\_  
\_\_\_\_\_
- 7) What do you look for in the shape of data? \_\_\_\_\_  
\_\_\_\_\_
- 8) Big Bob scored the following points at eight basketball games: {21, 24, 9, 11, 16, 7, 24} Calculate the following:
  - a. Mean: \_\_\_\_\_
  - b. Median: \_\_\_\_\_
  - c. Mode: \_\_\_\_\_
  - d. Range: \_\_\_\_\_
- 9) What is a statistical question? \_\_\_\_\_  
\_\_\_\_\_  
Give an example: \_\_\_\_\_  
\_\_\_\_\_  
Give a non-example: \_\_\_\_\_  
\_\_\_\_\_

10) Use the following data to create a box plot:

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

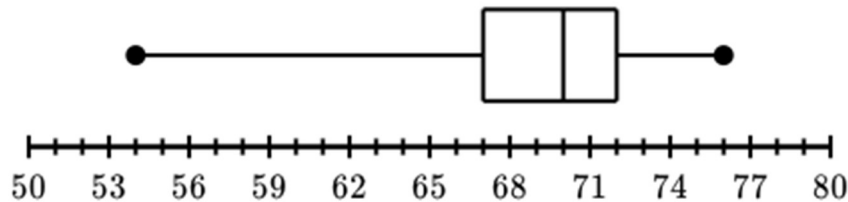
Median: \_\_\_\_\_  
 Q<sub>1</sub>: \_\_\_\_\_  
 Q<sub>3</sub>: \_\_\_\_\_  
 Lower Extreme (Minimum): \_\_\_\_\_  
 Upper Extreme (Maximum): \_\_\_\_\_



11) Which measure is MOST affected by an outlier? \_\_\_\_\_

- a) Mean      b) Median      c) Mode      d) Range

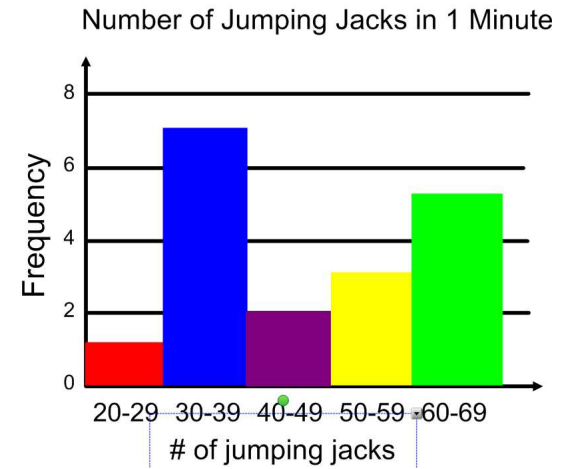
12) Identify the IQR from the box plot below: \_\_\_\_\_



13) Use the box plot above to answer the following questions:

- a) Minimum: \_\_\_\_\_      b) Lower Quartile (Q<sub>1</sub>): \_\_\_\_\_  
 c) Median: \_\_\_\_\_      d) Upper Quartile (Q<sub>3</sub>): \_\_\_\_\_  
 e) Maximum: \_\_\_\_\_      f) Range: \_\_\_\_\_  
 g) What percent of the data is 15 or greater? \_\_\_\_\_  
 h) What percent of the data is between 15 and 25? \_\_\_\_\_  
 i) The data is (Circle One): symmetrical    skewed right    skewed left

Use the Histogram below to answer questions 14-18.



14) According to the histogram, how many students can do more than 49 jumping jacks in 1 minute? \_\_\_\_\_

15) How many students participated in the survey? \_\_\_\_\_

16) Which interval represents the mode of the histogram? \_\_\_\_\_

17) How many people did **EXACTLY** 45 jumping jacks? \_\_\_\_\_

18) Circle the set of intervals that CAN be used for the data in the histogram. 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 \_\_\_\_\_

Sit-Ups Completed by Students During a Fitness Test

13	13	10	14	15	12
17	12	18	14	15	12