

Extra Practice

- 1) Make a line plot for each set of data. Find the mean, median, mode, range, and any outliers of the data shown in the line plot.

52	48	52	51
52	65	58	48
60	45	50	52
56	48	53	58
62	49	51	49

Student Height in Inches

Mean: _____ Median: _____ Mode: _____

Range: _____ Outliers: _____

- 2) The table shows the daily soda sales for a restaurant. Choose intervals, make a frequency table, and construct a histogram to represent the data.

Number of Sodas Sold Daily					
56	86	74	63	51	94
86	72	53	77	74	88
81	90	72	76	84	92
78	89	85	75	91	87

- 3) Use the data to create a box and whiskers plot. Find the Median, Q1, Q3, Minimum and Maximum {2, 3, 5, 4, 3, 3, 2, 5, 6}.



Median: _____

Q₁: _____

Q₃: _____

Lower Extreme (Minimum): _____

Upper Extreme (Maximum): _____

- 4) Describe how you know a question is a statistical question.

- 5) Find the mean, median, mode, range, IQR and Outliers for the following data.

1, 5, 9, 1, 2, 4, 8, 2

Mean: _____

Median: _____

Mode: _____

Range: _____

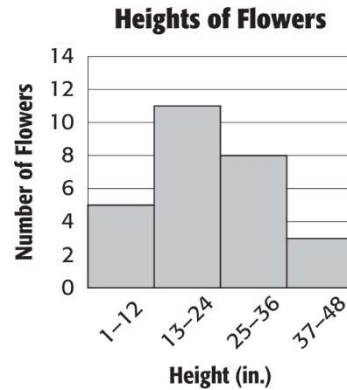
IQR: _____

Min: _____

Max: _____

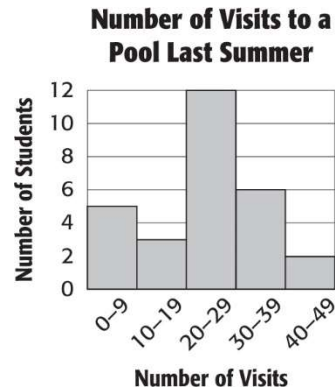
For Exercises 6 – 9, use the histogram at the right.

- 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? _____

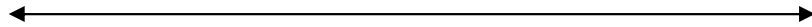
Give an example: _____

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

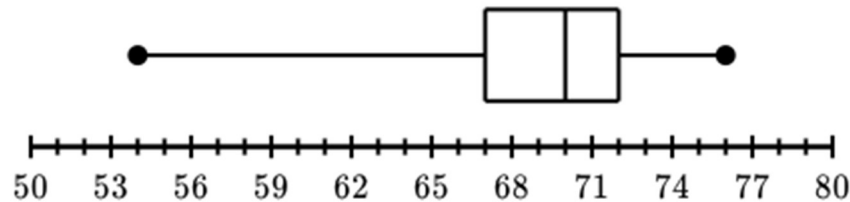
Median: _____
 Q₁: _____
 Q₃: _____
 Lower Extreme (Minimum): _____
 Upper Extreme (Maximum): _____



11) Which measure is MOST affected by an outlier? _____

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

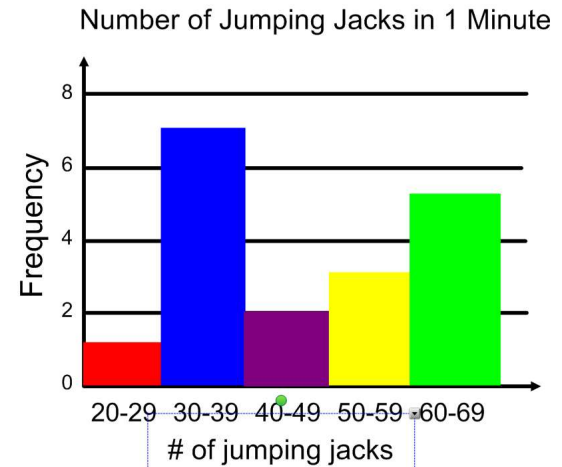
12) Identify the IQR from the box plot below: _____



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

- a) Minimum: _____ b) Lower Quartile (Q₁): _____
 c) Median: _____ d) Upper Quartile (Q₃): _____
 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

