Name Key

Statistics Review-ADV

rite the letter of the term that best matches each statement. You may use a term more than once.

1. The is the middle number, or the mean of the two middle numbers, of the ordered data in a set.	quartiles
of the data set is the sum of the data divided by the number of pieces of data.	c. ranged. measures of center
	g. mode g. gap g. median
is the number or numbers that occur most frequently in a data set.	i. dot plot
is an empty space or interval in a set of data. 7. Data that are grouped together are called a(n)	j. peak K. distribution I. histogram
Shows the arrangement of data. C 9. The difference between the largest value and the smallest value in a data set is the	m. box plot m. mean

10. A ______ is used to display a that is organized in intervals.

The table shows the number of siblings the students in Elissa's class have. Use the table for Exercises 1-3.

1. What is the mean of the data?

2. What is the median of the data?

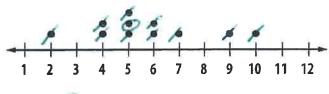
Num	ber o	f Sibli	ngs
1	8	3	1
A	2	X	2
2	1	8	X

3. Which measure of center best represents the data?

median because it's not symmetric and has an outlier

Refer to the dot plot for Exercises 4-6.

Number of Fiction Books Read



4. What is the mode of the data?

5

5. What is the median of the data?

5

6. What is the range and the interquartile range of the data?

$$Vange = 10 - 2 = 8$$

 $Q3 - Q1$
 $7 - 4 = 3 = IQR$

7. The data below show the number of hours students spent reading in one month. Represent the data given below in a stem-and-leaf plot.

12, 15, 17, 20, 23, 24, 25, 25, 30, 31, 31, 32, 32, 35, 40, 40, 42, 44, 44, 47

Time Spent Reading (h)

Stem	Leaf
Ī	257
2	03455 011225 002447
3	011225
4	002447

Key: 1/2=12

Use the table for Exercises 8–10.

8. Determine the mean of the data. Use the mean to summarize the center of the distribution.

532 - 8 = 66.50

Gyr	n Sho	e Cost	(\$)	1 192
65	39	48	41	115
57	153	67	62	+103
122	192	115	103	532

9. Which value is the outlier?

\$153

On average, gym shoes cost about \$66.50.

10. What is the mean cost without the outlier? Round to the nearest cent if necessary.

532-153=379 379÷7=54.14 \$54.14

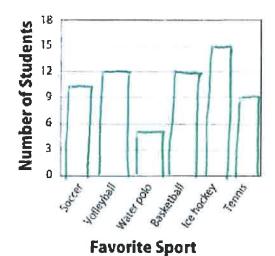
11. Julio surveyed people about the amount of money they earned during their summer jobs. The results are shown in the table. Which type of display should Julio use to show the results? Draw one using the data in the table.

People
25
28
15
32

histogram (intervals) Summer Job earnings 50-149 349 3490-449

12. The table shows the favorite sport of students. Represent the data in bar graph. Summarize and describe the data distribution using the mode.

Sport	Number of Students
Soccer	10
Volleyball	12
Water polo	5
Basketball	12
Ice Hockey	15
Tennis	9



Ice hockey is the most popular sport.

For Exercises 13-15, use the following set of data:

13. What are the first and third quartiles of the data?

14. What is the interquartile range of the data?

15. The number of days a house is on the market before it sells in one neighborhood is listed below. Draw a box plot for the data.

