6th Grade Math Common Core
(6.sp.1-6.sp.5)

Name: _____
Date: _____ Score: _____

The following test covers 6th grade common core standards 6.sp.1-6.sp.5. Do your best to show all of the things you have learned. Show all work and copy your answers into the blanks on the right.

Tell whether the question is a statistical question.

1. What is your favorite animal? **1.**_____
2. What is the favorite animal of 6th grade students at your school? **2.**_____
3. What is the height of Montfort Elementary? **3.**_____

Display the data below in a dot plot. Then, identify any clusters, peaks, or gaps in the data.

4. _____
_____
_____

YEAR

2011	2011	2012	2013
2012	2014	2011	2014
2015	2012	2012	2010

Use the data below find each measure.
The table shows the amount of time jogging for one week.

Time (Hours)

1.5	2	1	0.5	1.5	2	2.5

5. Find the mean. **5.** _____
6. Find the median. **6.** _____
7. Find the mode. **7.** _____
8. Find the range. **8.** _____

Use the following data to create a data display.
Students went to a petting zoo. They recorded a list of the number of animals that were each pen. The results were:
13, 17, 11, 20, 18, 11, 11, 12, 12, 12, 13, 13, 12, 13, 14, 13, 15, 16, 19

9. Create a data display.

10. What are some observations that can be made from the data display?

The number of pizzas each class needs is 8, 3, 4, 6, 12, 10 and 9.

Identify the lower and upper quartiles, lower and upper extremes, median, and interquartile range. Then, create a box and whisker plot for the data.

11. Lower Extreme **11.** _____
12. Upper Extreme **12.** _____
13. Median **13.** _____
14. Lower quartile **14.** _____
15. Upper quartile **15.** _____
16. Interquartile Range **16.** _____
17. Draw the box and whisker plot ———> **17.** _____

18. Display the data in a histogram.

Basketball Player

Points Per Game	Frequency
0-9	7
10-19	8
20-29	3
30-39	1

Use the given data to find each measure.

The data are the number of apps purchased by students last year:
4, 2, 5, 7, 1, 6, 7, 8, 12, 7

19. Find the measure of center and the measures of variation for the data.

20. A new student is added to the data set who purchased 17 apps last year. Is 17 an outlier? How does adding this value to the data set affect the measures of center and variation? Please Explain.

_____
_____
_____
_____