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| Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Units: \_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_  **Math 6th Study Guide: Unit 11 Data Displays** |

**Directions: Carefully read and follow the directions for each section. Remember to SHOW YOUR WORK and write your answers on the lines provided.**

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| 1.) Use the histogram that shows the test scores by students in a class to answer the following questions:  1a.) Which interval contains no  data values? \_\_\_\_\_\_\_\_\_\_\_\_  1b.) How many students are in the class? \_\_\_\_\_\_  1c.) How many students got a score below 61%?  \_\_\_\_\_\_\_\_\_\_\_ |
| 2.) Use the data from the table to draw a histogram below  TA: C:\replacearts\Green Assessment Book\Green Chapter 10 AB\Arts\PNGs\mscc6_ab_1000_04.png  States Visited   |  |  | | --- | --- | | **States Visited** | | | **States** | **Frequency** | | 1-5 | 12 | | 6-10 | 14 | | 11-15 | 6 | | 16-20 | 3 |     16  14  12  10  8  6  4  2  0  1-5 6-10 11-15 16-20  States |
| 3.) Choose one of these ways to describe each data display below. You may use a word more than once.  skewed right, skewed left or symmetric  3a.)  3a.) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  3b.)  3b.) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_    3c.) 3c.) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 4.) The box-and-whisker plot shows the ages (in years) of spider monkeys at a zoo. Match the parts of the graph to the words below.  Word bank:  First Quartile Greatest Value Least Value Median Third Quartile  b  c  d  e  a    Write the correct word on the line:    4a.)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4b.)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4c.)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_    4d.)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4e.)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 5.) This box-and-whiskers plot shows the running time (in minutes) of movies being shown at a theater. Answer the questions below based on the graph.    5a.) What is the median running time of a movie? 5a.)\_\_\_\_\_\_\_\_\_\_\_\_\_\_  5b.) Is the data more spread out below the first quartile or  above the third quartile? 5b.) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  5c.) What percent of the movies have a running time of at least 130 minutes?    5c.)\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 6.) The data shows the ages of teachers (in years) who teach sixth grade.  30, 62, 26, 35, 45, 22, 49, 32, 28, 50, 42, 35  6a.) Make a box-and-whisker plot of the data.  6b.) Find the range and interquartile range.  Range = \_\_\_\_\_\_\_\_\_\_\_\_\_  Interquartile Range = \_\_\_\_\_\_\_\_\_\_\_\_\_  6c.) Identify the shape of the distribution. Explain. |