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| **Directions:** Draw the box and whisker plot and give the five-number summary for each data set. |
| **1.** The number of days each month that Mr. Wilkerson gave homework to his students:$$\left\{12, 18, 15, 10, 20, 16, 22, 14, 9, 5\right\}$$ 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 | Minimum: \_\_\_\_\_\_Lower Quartile: \_\_\_\_\_\_Median: \_\_\_\_\_\_Upper Quartile: \_\_\_\_\_\_Maximum: \_\_\_\_\_\_ |
| **2.** The number of electoral votes won by the republican candidate in presidential elections from 1960 – 2016:$$\left\{306, 206, 173, 286, 271, 159, 168, 426, 525, 489, 240, 520, 301, 52, 219\right\}$$0 40 80 120 160 200 240 280 320 360 400 440 480 520 560 600 | Minimum: \_\_\_\_\_\_Lower Quartile: \_\_\_\_\_\_Median: \_\_\_\_\_\_Upper Quartile: \_\_\_\_\_\_Maximum: \_\_\_\_\_\_ |
| **3.** The number of calories in each sandwich listed on the menu at a fast food restaurant:$$\left\{320, 420, 580, 270, 320, 380, 360, 270, 320, 310, 440, 470\right\}$$ 200 230 260 290 320 350 380 410 440 470 500 530 560 590 620 650 | Minimum: \_\_\_\_\_\_Lower Quartile: \_\_\_\_\_\_Median: \_\_\_\_\_\_Upper Quartile: \_\_\_\_\_\_Maximum: \_\_\_\_\_\_ |
| **4.** The speed, in miles per hour, of the first 20 pitches thrown in a baseball game:$$\left\{66, 74, 80, 70, 72, 74, 63, 82, 72, 78, 75, 84, 73, 65, 76, 80, 65, 81, 73, 78\right\}$$60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 | Minimum: \_\_\_\_\_\_Lower Quartile: \_\_\_\_\_\_Median: \_\_\_\_\_\_Upper Quartile: \_\_\_\_\_\_Maximum: \_\_\_\_\_\_ |

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| **Directions:** Use the box and whisker plot to answer the questions. |
| **5.** The box and whisker plot below shows the ages of the 36 players on the 2016-2017 Buffalo Sabres hockey team. | **a)** What is the interquartile range? |
| **b)** About what percent of the players are at least 25 years old? |
| **c)** About how many players are no more than 28 years old? |
| **6.** The box and whisker plot below shows the peak wind speeds, in miles per hour, for each of the 15 named storms that formed in the North Atlantic in 2016. | **a)** About what percent of the storms had a wind speed between 70 and 115 mph? |
| **b)** About how many storms had a wind speed of at least 50 mph? |
| **c)** If Hurricane Nicole had a peak wind speed of 115 mph, what can you conclude? |
| **7.** Mr. Whitman gave a test to his 32 math students. He felt the results were low, so he retested them one week late. The results of the original and retake test are shown below. | **a)** What is the difference in the median grade? |
| **b)** Compare the percent of students who got at least a 60 on the original test to those that got at least a 60 on the retake. |
| **c)** If students need a 65 in order to pass the test, how many more passed the retake? |