Name: $\qquad$ Period: $\qquad$ Score:
$\qquad$ / $\qquad$
HW 7-1 HONORS: Central Tendency and Box \& Whisker Plots $\qquad$

Instructions: Show all work on a SEPARATE piece of paper. STAPLE your work to this sheet. Don't forget to add LABELS!

1. The following are test scores from a math class. Create a frequency chart and histogram of the test scores. Use intervals of 10 .
$60,64,68,68,72,76,76,80,80,80,84,84,84,84,88,88,88,92,92,96,96,96,96,96,96,96,100,100$
2. U.S. Presidents have entered into office at many different ages. The table below displays the number of presidents inaugurated within different age groups. Use the data to create a histogram.

| Age at Inauguration | $40-44$ | $45-49$ | $50-54$ | $55-59$ | $60-64$ | $65-69$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| U.S. Presidents | 2 | 7 | 13 | 12 | 7 | 3 |

3. The frequency table below shows the ages of people attending a high school play. Make a histogram to display the data.

| Age | Tally | Frequency |
| :---: | :---: | :---: |
| 0-19 |  | 47 |
| 20-39 |  | 43 |
| 40-59 |  | 31 |
| 60-79 | U11III | 8 |

Find the mean, median, mode, quartiles, IQR and range for each data set. 4. number of students helping at the cookie booth each hour: $3,5,8,1,4,11,3$
5. weight in pounds of boxes loaded onto a semi truck: 201, 201, 200, 199, 199
6. car speeds in miles per hour observed by a highway patrol officer: $60,53,53,52,53,55,55,57$

Find the minimum, lower quartile, median, upper quartile, and maximum values for each data set. 7. prices in dollars of smartphones: 311, 309, 312, 314, 399, 312
8. attendance at an event for the last nine years: $68,99,73,65,67,62,80,81,83$
9. books a student checks out of the library: 17, 9, 10, 17, 18, 5, 2

Create box and whisker plots for the follow data sets.
10. $\{65,63,69,71,73,59,60,70,72,66,71,58\}$
11. $\{31,30,28,26,22,34,26,31,47,32,18,33,26,23,18\}$

