**Chapter 8 Test Practice Data Set**

Here is a table that gives the ages of all U.S. Presidents when they took office.

|  |  |  |  |
| --- | --- | --- | --- |
| **President** | **Age** | **President** | **Age** |
| Washington | 57 | Cleveland | 55 |
| J. Adams | 61 | McKinley | 54 |
| Jefferson | 57 | T. Roosevelt | 42 |
| Madison | 57 | Taft | 51 |
| Monroe | 58 | Wilson | 56 |
| J.Q. Adams | 57 | Harding | 55 |
| Jackson | 61 | Coolidge | 51 |
| Van Buren | 54 | Hoover | 54 |
| W.H. Harrison | 68 | F.D. Roosevelt | 51 |
| Tyler | 51 | Truman | 60 |
| Polk | 49 | Eisenhower | 61 |
| Taylor | 64 | Kennedy | 43 |
| Fillmore | 50 | L.B. Johnson | 55 |
| Pierce | 48 | Nixon | 56 |
| Buchanan | 65 | Ford | 51 |
| Lincoln | 52 | Carter | 52 |
| A. Johnson | 56 | Reagan | 69 |
| Grant | 46 | G.H.W. Bush | 64 |
| Hayes | 54 | Clinton | 46 |
| Garfield | 49 | G. Bush | 54 |
| Arthur | 51 | Obama | 47 |
| Cleveland | 47 |  |  |
| B. Harrison | 55 |  |  |

1. Create a grouped frequency table and histogram for the age of the U.S. Presidents when they took office. (Use 6 intervals, starting with age 40)
2. Find the mean and standard deviation.
3. Find the five statistical summary.
4. Create a box and whisker plot for the age of the U.S. Presidents when they took office.
5. Are there any outliers in the data set? Justify your answer.