Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**How Old Were They?**

The following box-and-whisker plot shows the ages of the 17 Presidents of the United

States elected in the twentieth-century at their inaugurations.

40 50 60 70 80

1. The youngest president was John F. Kennedy. How old was he at his inauguration?

2. The oldest president at inauguration was Ronald Reagan. How old was he at his inauguration?

3. What was the median age at inauguration?

4. What percentage of the presidents were over 60 (the upper quartile)?

5. What percentage of the presidents were under 51 (the lower quartile)?

The following table gives the ages of the 21 Vice-presidents of the United States at the time they took office:

|  |  |
| --- | --- |
| Vice-president | Age when he took office |
| Charles Fairbanks | 52 |
| James Sherman | 53 |
| Thomas Marshall | 58 |
| Calvin Coolidge | 48 |
| Charles Dawes | 59 |
| Charles Curtis | 68 |
| John Garner | 64 |
| Henry Wallace | 52 |
| Harry Truman | 60 |
| Alben Barkley | 71 |
| Richard Nixon | 40 |
| Lyndon Johnson | 52 |
| Hubert Humphrey | 53 |
| Spiro Agnew | 51 |
| Gerald Ford | 59 |
| Nelson Rockafeller | 65 |
| Walter Mondale | 49 |
| George Bush | 56 |
| Dan Quayle | 41 |
| Albert Gore | 44 |

6. Make a box-and-whisker plot of the ages of the vice-presidents. Below the same number line, copy the box plot for the ages of the presidents. Compare the ages of the twentieth century presidents and vice-presidents. Write at least three things you learned from analyzing the data in the box plots. Include a statement about how old a person must be to become president or vice-president, and tell how this compares to the ages of the people who served in these offices in the twentieth century.

How Old Were They?

*Solutions*

The following box-and-whisker plot shows the ages of the 17 Presidents of the United

States elected in the twentieth-century at their inaugurations.

40 50 60 70 80

1. The youngest president was John F. Kennedy. How old was he at his inauguration? *43 years old*

2. The oldest president at inauguration was Ronald Reagan. How old was he at his inauguration? *69 years old*

3. What was the median age at inauguration? *55 years old*

4. What percentage of the presidents were over 60 (the upper quartile)? *25%*

5. What percentage of the presidents were under 51 (the lower quartile)? *25%*

The following table gives the ages of the 21 Vice-presidents of the United States at the time they took office:

|  |  |
| --- | --- |
| Vice-president | Age when he took office |
| Charles Fairbanks | 52 |
| James Sherman | 53 |
| Thomas Marshall | 58 |
| Calvin Coolidge | 48 |
| Charles Dawes | 59 |
| Charles Curtis | 68 |
| John Garner | 64 |
| Henry Wallace | 52 |
| Harry Truman | 60 |
| Alben Barkley | 71 |
| Richard Nixon | 40 |
| Lyndon Johnson | 52 |
| Hubert Humphrey | 53 |
| Spiro Agnew | 51 |
| Gerald Ford | 59 |
| Nelson Rockafeller | 65 |
| Walter Mondale | 49 |
| George Bush | 56 |
| Dan Quayle | 41 |
| Albert Gore | 44 |

6. Make a box-and-whisker plot of the ages of the vice-presidents. Below the same number line copy the box plot for the ages of the presidents. Compare the ages of the twentieth century presidents and vice-presidents. Write at least three things you learned from analyzing the data in the box plots. Include a statement about how old a person must be to serve as president or vice-president.

40 50 60 70 80

Vice-Presidents

Presidents

The youngest Vice-President was 40 years old while the youngest President was 43 years old. The oldest Vice-President was 71 years old while the oldest President was 69 years old. The median age for the Vice-Presidents was 53 years and for the Presidents the median was 55 years. The Presidents were slightly older than the Vice-Presidents since half of them were over 55 years old.

According to Article II of the United States Constitution, you must be 35 years old to hold the office of President. The Twelfth Amendment makes this apply to the Vice- President as well.