

Vote the Facts

Brief Overview:

Students will have fun as they learn some interesting facts and trivia about the former presidents of the United States of America. Because this is a statistics lesson, the data will be displayed and interpreted. Yes, we will be looking for the trends of our forefathers!

NCTM Content Standard/National Science Education Standard:

Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them.

Grade/Level:

Grades 4 - 5

Duration/Length:

Four lessons – 60 minutes per lesson

Student Outcomes:

Students will:

- Design investigations to address a question and consider how data collection methods affect the nature of the data set
- Collect data using observations, surveys, and experiments
- Represent data using tables and graphs such as line plots, bar graphs, stem and leaf plots and box plots

Materials and Resources:

- 1-cm grid paper
- Markers
- Pencils
- Requirements to be an United States President posted
- Pictures of the presidential candidates
- Students' Voting Ballots
- Student Resource 5 for each pair of students
- Grid Chart Paper
- Probability Scale

Development/Procedures:

Lesson 1

Pre-Assessment

- Distribute data that reveals the heights of the United States Presidents, Student Resource 3. Students will convert the height measurements to inches. Answers can be found on Teacher Resource 2.
- Students will display the data on a line plot, The Centimeter Square Grid. Student Resource 4. Answers can be found on Teacher Resource 3. Answers will be shown on the overhead.
- Students will find the range, median, mode and mean of the data, Student Resource 5. Answers can be found on Teacher Resource 4. Answers will be shown on the overhead.

Launch

- Discuss the requirements needed to be president of the United States.
- Have students take the election quiz (Student Resource 1). Answer key can be found on Teacher Resource 1.
- Discuss answers to the quiz.
- Display pictures of the presidential candidates.
- Discuss whether or not the candidates meet the criteria.
- Students will predict who the new president will be by voting (Student Resource 2).
- Display the results in the classroom.

Teacher Facilitation

- Display the line plot, Teacher Resource 3 on the overhead. Cover the box plot portion.
- Students will correct any errors on their line plots.
- Students will find the range, mean, median, and mode of the data. Distribute Student Resource 5 to each student.
- Record students' answers on transparency, Student Resource 5. Answer key can be found on Teacher Resource 4.
- Add box plots above the line plots, Student Resource 4, on the overhead.
- Discuss the new vocabulary: median, upper quartile, lower quartile, upper extreme and lower extreme.

Student Application

- Students will create a box plot above their line plots.
- Students will label the upper quartile, the lower quartile, the upper extreme and the lower extreme of the data.

Embedded Assessment

- Informally assess the students as they create their line plots and box plots.
- Discuss with students how they found the central tendencies of the data.

Reteaching/Extension

- Walk through the steps of finding the range, median, mode and mean with students who are experiencing difficulty with these concepts.
- Have students compare data between the presidential winner and his opponent concerning their heights. Have students contrast how many tall presidents won over their shorter competitors. Access the following website:http://en.wikipedia.org/wiki/Heights_of_United_States_Presidents_and_presidential_candidates

Lesson 2

Pre-Assessment

In their math journals, students will describe the Presidents' Heights Data found on their line plots from the previous day. See Teacher Resource 5. Choose a few students to share their journal writings.

Launch

- Distribute Student Resource 6 to pairs of students.
- Students will work together to answer the trivia questions using information found in Student Resource 7.
- After sufficient time, students will share answers and correct papers... See Teacher Resource 6 .

Teacher Facilitation

- Distribute Student Resource 6.
- Allow students time to gather data.

Student Application

- Students will access the Internet.
- Students will locate information about the presidents.
- Students will record the data on Student Resource 6.

Embedded Assessment

- Listen as students share their journal entries.
- Observe the students as they record the data about the presidents.

Reteaching/Extension

- Assist students who are having difficulty finding the data.
- Students who finish quickly can be allowed to research another president.

Lesson 3

Pre-Assessment

Students will look over their data from yesterday. They will discuss with their groups how to best display the data for the presidents' religions, professions before presidency and military service. They will display the data in a graph and share it with the class.

Launch

Divide the class into groups of 4. Assign each group a data collection category: religion, profession before presidency and military service. Some of the groups will be given the same category. Each group is given a Presidential Fact Finder, Student Resource 8.

Teacher Facilitation

- Distribute Student Resource 9 and 1-cm grid paper (Student Resource 2). Teacher's line plot will be shown on the overhead.
- Distribute Student Resource 10.
- Remind students of the steps to make a box plot. Have students create a box plot above the line plot.
- Discuss any trends that were observed.

Student Application

- Students will display data in a line plot using 1- cm grid paper (Student Resource 2)
- Students will determine the range, the median, the mode and the mean of the data.
- Students will create a box plot above their line plots.
- Students will label the upper quartile, lower quartile, upper extreme and lower extreme, and median. See Teacher Resource 8.

Embedded Assessment

- Informally assess the students as they create their line plots and determine the central tendencies of the data.

- Listen as students explain how to make a box plot.

Reteaching/Extension

- Assist students who are experiencing difficulty with line plots or finding the central tendencies of the data.
- Assign students who are finished to look over the work of their group to see if they agree.

Lesson 4

Pre-Assessment

Students will write the steps to making a box plot in their math journals.

Launch

Students will respond to the statement, “One vote makes a difference”. Tell the students that in the history of the United States that one vote did make a difference. One vote allowed Texas to become the 28th state of the United States in 1845 and another vote in 1846 put the United States at war with Mexico. Refer the students to the website:

<http://pbskids.org/democracy/vote/onevote/onevote1845.html> to find out more about the importance of one vote.

Teacher Facilitation

- Display the pictures of the candidates for president.
- Distribute Student Resource 11 to collect data about these candidates.
- Record the data collected about these candidates.
- Add the data to the various graphs in the classroom.
- Distribute Student Resource 12, the student ballot for the students to vote who they think will win based on the data they have collected

Student Application

- Students will work with a partner in the computer lab to complete Student Resource 11.
- Students will continue to discuss any trends they may observe in the data.
- Students will determine if the new data would alter the range, the median, the mode or the mean of the Presidents’ Heights Data or the Presidents’ Ages Data.

Embedded Assessment

Informally assess the students as they collect data in the computer lab, discuss any observed trends and determine if the range, median, mode and mean change when the new data is added.

Reteaching/Extension

- Assist students who are experiencing difficulty with the central tendencies.
- Students who have shown mastery of central tendencies should research new facts about the presidential candidates and display the information in Student Resource 12- Presidential Candidate Fact Finder and check answers with the Teacher's Resource 9.

Summative Assessment:

This section should describe how teachers will determine each student's progress towards understanding the concept of the lesson (similar to state assessments like the MSA or HSA).

Appendix A: Teacher Resources

Teacher Resource 1, Take an Election Quiz –Key
Teacher Resource 2, Table of Presidents' Heights
Teacher Resource 3, Line Plot of Presidents' Heights completed
Teacher Resource 4, Central Tendencies for Height Answer Key
Teacher Resource 5, Example of Journal Entry
Teacher Resource 6, Answers to Presidential Trivia
Teacher Resource 7, Central Tendencies for Age Answer Key
Teacher Resource 8, Probability Scale
Teacher Resource 9, Line Plot of the Age of U.S. Presidents when Entering Office
Teacher Resource 10, Presidential Candidate Fact Finder

Appendix B: Student Resources

Student Resource 1, Take an Election Quiz
Student Resource 2, Voting Ballots
Student Resource 3, Table of Presidents' Heights
Student Resource 4, 1- cm Grid Paper
Student Resource 5, Central Tendencies for Presidents' Heights
Student Resource 6, Presidential Trivia
Student Resource 7 – Presidential Biographies
Student Resource 8, Presidential Fact Finder
Student Resource 9, Presidents' Ages When Inaugurated
Student Resource 10 Central Tendencies for Presidents' Ages
Student Resource 11, Presidential Candidate Fact Finder

Student Resource 12, Student Ballot
Student Resource 13, Summative Assessment.

Other Useful Information

Presidential Requirements
How to Make a Box and Whiskers Plot
Books to Use for Teaching about Elections
Helpful Websites
Pictures of the Candidates

Authors:

Barbara Aud
King's Christian Academy
St. Mary's County

Sherry Bazinet
Roland Park Elementary
Baltimore City

Name _____

Date _____

Take an Election Quiz

Directions: Fill in the circle of the correct answer.

1. Every _____ years people in the United States get to vote for President.

- 2
- 4
- 6
- 8

2. To be elected President of the United States, a candidate must receive _____ electoral votes.

- 266
- 270
- 271
- 279

3. The voting of the people is called the _____ vote.

- electoral
- popular
- majority
- state

4. To serve as President of the United States, a candidate must be at least _____ years old.

- 35
- 40
- 45
- 50

5. Americans vote for the President on Election Day, which occurs every four years in early _____.

- September
- October
- November
- December

6. This year's (2008) Republican Candidate is _____.

- Barack Obama
- George W. Bush
- Ralph Nader
- John McCain

7. This year's (2008) Democratic Candidate is _____.

- Barack Obama
- George W. Bush
- Ralph Nader
- John McCain

8. This year's (2008) Green Party (Independent) Candidate is _____.

- Barack Obama
- George W. Bush
- Ralph Nader
- John McCain

9. Voters in the United States must be at least _____ years old.

- 16
- 18
- 21
- 35

10. Americans can vote by mail by submitting _____ ballots.

- airmail
- absentee
- electronic
- handwritten

Teacher Resource 1

Take an Election Quiz – KEY (Answers are in bold print.)

1. Every _____ years people in the United States get to vote for President.

- 2
- 4
- 6
- 8

2. To be elected President of the United States, a candidate must receive _____ electoral votes.

- 266
- 270
- 271
- 279

3. The voting of the people is called the _____ vote.

- electoral
- popular
- majority
- state

4. To serve as President of the United States, a candidate must be at least ____ years old.

- 35
- 40
- 45
- 50

5. Americans vote for the President on Election Day, which occurs every four years in early _____.

- September
- October
- November
- December

6. This year's (2008) Republican Candidate is _____.

- Barack Obama
- George W. Bush
- Ralph Nader
- John McCain**

7. This year's (2008) Democratic Candidate is _____.

- Barack Obama**
- George W. Bush
- Ralph Nader
- John McCain

8. This year's (2008) Green Party (Independent) Candidate is _____.

- Barack Obama
- George W. Bush
- Ralph Nader**
- John McCain

9. Voters in the United States must be at least ____ years old.

- 16
- 18**
- 21
- 35

10. Americans can vote by mail by submitting _____ ballots.

- airmail
- absentee**
- electronic
- handwritten

Student Resource 2

Student's Voting Ballots

Please pick the candidate you would like to vote for.

Barack Obama



John McCain



Ralph Nader



Statistician's Name _____

Date _____

United States Presidents	Height in feet and inches	Height in Inches
1. George Washington	6 feet, 2 inches	
2. John Adams	5 feet, 7 inches	
3. Thomas Jefferson	6 feet, 3 inches	
4. James Madison	5 feet, 4 inches	
5. James Monroe	6 feet	
6. John Quincy Adams	5 feet, 7 inches	
7. Andrew Jackson	6 feet, 1 inch	
8. Martin van Buren	5 feet, 6 inches	
9. William Henry Harrison	5 feet, 8 inches	
10. John Tyler	6 feet	
11. James K. Polk	5 feet, 8 inches	
12. Zachary Taylor	5 feet, 8 inches	
13. Millard Fillmore	5 feet, 9 inches	
14. Franklin Pierce	5 feet, 10 inches	
15. James Buchanan	6 feet	
16. Abraham Lincoln	6 feet, 4 inches	
17. Andrew Johnson	5 feet, 10 inches	
18. Ulysses S. Grant	5 feet, 9 inches	
19. Rutherford B. Hayes	5 feet, 9 inches	
20. James A. Garfield	6 feet	
21. Chester A. Arthur	6 feet, 2 inches	
22. Grover Cleveland	5 feet, 11 inches	
23. Benjamin Harrison	5 feet, 6 inches	
24. Grover Cleveland	5 feet, 11 inches	
25. William McKinley	5 feet, 7 inches	
26. Theodore Roosevelt	5 feet, 10 inches	

27. William H. Taft	6 feet	
28. Woodrow Wilson	5 feet, 11 inches	
29. Warren G. Harding	6 feet	
30. Calvin Coolidge	5 feet, 10 inches	
31. Herbert C. Hoover	5 feet, 11 inches	
32. Franklin D. Roosevelt	6 feet, 2 inches	
33. Harry S. Truman	5 feet, 9 inches	
34. Dwight D. Eisenhower	5 feet, 11 inches	
35. John F. Kennedy	6 feet	
36. Lyndon B. Johnson	6 feet, 3 inches	
37. Richard M. Nixon	6 feet	
38. Gerald Ford	6 feet	
39. Jimmy Carter	5 feet, 10 inches	
40. Ronald Reagan	6 feet, 1 inch	
41. George Herbert Walker Bush	6 feet 2 inches	
42. William Jefferson Clinton	6 feet 3 inches	
43. George W. Bush	6 feet	

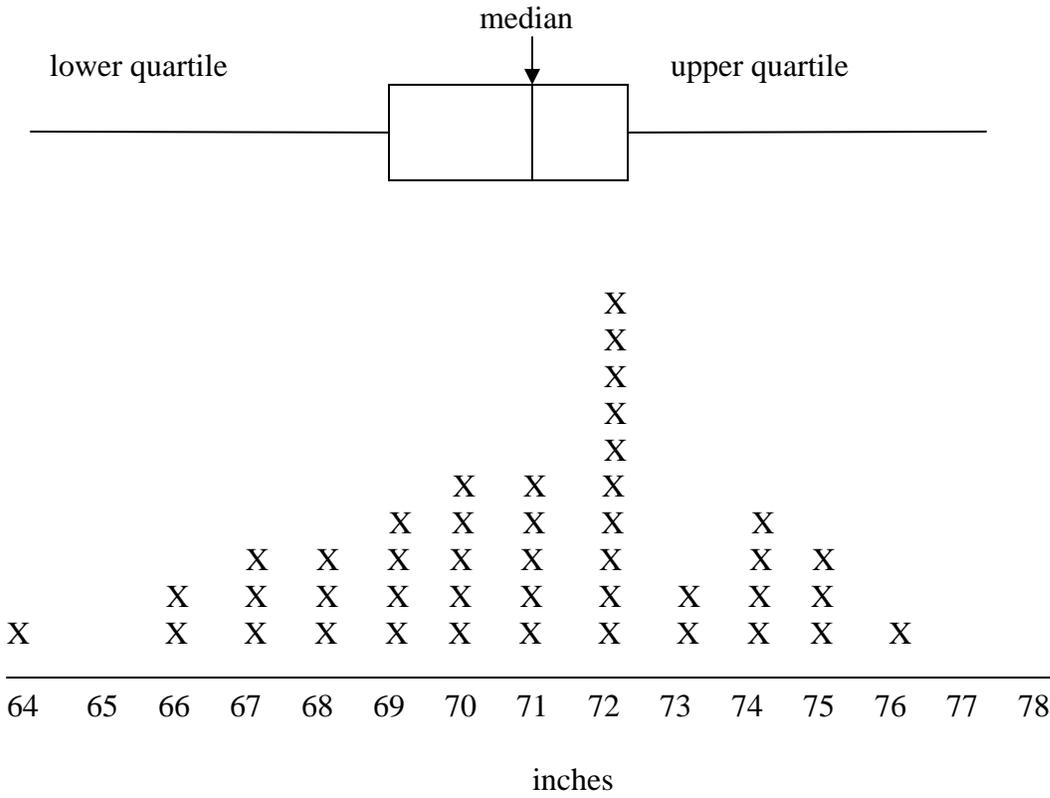
Statistician's Name _____

Date _____

United States Presidents	Height in feet and inches	Height in Inches
1. George Washington	6 feet, 2 inches	74 inches
2. John Adams	5 feet, 7 inches	67 inches
3. Thomas Jefferson	6 feet, 3 inches	75 inches
4. James Madison	5 feet, 4 inches	64 inches
5. James Monroe	6 feet	72 inches
6. John Quincy Adams	5 feet, 7 inches	67 inches
7. Andrew Jackson	6 feet, 1 inch	73 inches
8. Martin van Buren	5 feet, 6 inches	66 inches
9. William Henry Harrison	5 feet, 8 inches	68 inches
10. John Tyler	6 feet	72 inches
11. James K. Polk	5 feet, 8 inches	68 inches
12. Zachary Taylor	5 feet, 8 inches	68 inches
13. Millard Fillmore	5 feet, 9 inches	69 inches
14. Franklin Pierce	5 feet, 10 inches	70 inches
15. James Buchanan	6 feet	72 inches
16. Abraham Lincoln	6 feet, 4 inches	76 inches
17. Andrew Johnson	5 feet, 10 inches	70 inches
18. Ulysses S. Grant	5 feet, 9 inches	69 inches
19. Rutherford B. Hayes	5 feet, 9 inches	69 inches
20. James A. Garfield	6 feet	72 inches
21. Chester A. Arthur	6 feet, 2 inches	74 inches
22. Grover Cleveland	5 feet, 11 inches	71 inches
23. Benjamin Harrison	5 feet, 6 inches	66 inches
24. Grover Cleveland	5 feet, 11 inches	71 inches
25. William McKinley	5 feet, 7 inches	67 inches
26. Theodore Roosevelt	5 feet, 10 inches	70 inches
27. William H. Taft	6 feet	72 inches

28. Woodrow Wilson	5 feet, 11 inches	71 inches
29. Warren G. Harding	6 feet	72 inches
30. Calvin Coolidge	5 feet, 10 inches	70 inches
31. Herbert C. Hoover	5 feet, 11 inches	71 inches
32. Franklin D. Roosevelt	6 feet, 2 inches	74 inches
33. Harry S. Truman	5 feet, 9 inches	69 inches
34. Dwight D. Eisenhower	5 feet, 11 inches	71 inches
35. John F. Kennedy	6 feet	72 inches
36. Lyndon B. Johnson	6 feet, 3 inches	75 inches
37. Richard M. Nixon	6 feet	72 inches
38. Gerald Ford	6 feet	72 inches
39. Jimmy Carter	5 feet, 10 inches	70 inches
40. Ronald Reagan	6 feet, 1 inch	73 inches
41. George Herbert Walker Bush	6 feet 2 inches	74 inches
42. William Jefferson Clinton	6 feet 3 inches	75 inches
43. George W. Bush	6 feet	72 inches
Presidential Candidates 2008		
Barack Obama	6 feet, 2 inches	74 inches
John McCain	5 feet, 7 inches	67 inches
Ralph Nader	6 feet, 4 inches	76 inches

Unites States Presidents' Heights



Statistician's Name _____

Date _____

Find the range, median, mode and mean of the presidents' heights data. Show all your work.



The range is _____.

The median is _____.

The mode is _____.

The mean is _____.

Answer Key

Find the range, median, mode and mean of the presidents' heights data. Show all your work.



The range is 12 inches.

The median is 71 inches.

The mode is 72 inches.

The mean is 70.8 inches.

The line plot I made yesterday displays the United States Presidents' Heights. The range of the data was 12 inches. James Madison was the shortest president. He was 64 inches tall. Abraham Lincoln was the tallest president. He was 76 inches tall. I subtracted James Madison's height from Abraham Lincoln's height to get the range. The number line of my line plot began with 64 inches and ended with 76 inches. I did NOT skip any numbers in between. There were 43 Xs on my line plot, one X for each former president. The median of this data was 71 inches. This was the middle number of the data. The mean of the data was 70.8 inches. I rounded the mean to the nearest whole number and got 71 inches. The mode of the data was 72 inches. 72 inches was the height that occurred most often in this data.

President Facts

1. Which American President was a national hero when America was young?

Herbert Hoover
George Washington
Millard Fillmore
John F. Kennedy

2. This President had a wife whose first name was Martha, but her last name was not Washington.

Thomas Jefferson
Zachary Taylor
John Adams
John Tyler

3. Who was the only President who did not win election to either the office of Vice President or President?

Grover Cleveland
Gerald Ford
James Madison
William H. Taft

4. This President fought in the American Revolution.

William Henry Harrison
John F. Kennedy
Millard Fillmore
James Monroe

5. Who was the youngest person ever to become President?

Thomas Jefferson
[John F. Kennedy](#)
John Tyler
[Theodore Roosevelt](#)

6. Who was the only President to resign?

John Quincy Adams
[Richard Nixon](#)

William McKinley
Woodrow Wilson

7. Which President served the shortest time in office?

Franklin Pierce
Martin Van Buren
James Buchanan
[William H. Harrison](#)

8. He loved to read and was constantly borrowing books from his neighbors.

Andrew Johnson
Rutherford B. Hayes
Thomas Jefferson
Abraham Lincoln

9. Who was the oldest person ever elected President?

Harry Truman
Theodore Roosevelt
James Garfield
Ronald Reagan

10. This President was a good baseball player.

Theodore Roosevelt
Chester A. Arthur
William H. Taft
Andrew Johnson

11 Who was the only President who had a child born in the White House?

Benjamin Harrison
[Grover Cleveland](#)
Harry S. Truman
Calvin Coolidge

12. He could see the smoke from his fire room from his balcony.

Herbert Hoover
Richard Nixon
Franklin D. Roosevelt
Warren G. Harding

13. This President was a general in World War 2

Ulysses S. Grant
Andrew Jackson
Dwight D. Eisenhower
Bill Clinton

14. His portrait is on the half-dollar.

John F. Kennedy
George Washington
Thomas Jefferson
Abraham Lincoln

15 Who was the shortest president?

James Polk
Lyndon B. Johnson
James Madison
Richard Nixon

16. Who was the only President to serve two nonconsecutive terms?

William Henry Harrison
[Grover Cleveland](#)
Bill Clinton
Dwight D. Eisenhower

17. At one time he had been a peanut farmer.

Grover Cleveland
James Monroe
Jimmy Carter
Franklin Pierce

18. Sixty-nine days after becoming President, he was shot by John Hinckley Jr.

Calvin Coolidge
Herbert Hoover
George Bush
Ronald Reagan

19. This President fought in World War 2 as a pilot.

Benjamin Harrison
George Bush

Theodore Roosevelt
Zachary Taylor

20. Which president had the most children of all the presidents?

Calvin Coolidge
Herbert Hoover
[John Tyler](#)
Ronald Reagan

21. Which president was never married?

James [Buchanan.](#)
Lyndon B. Johnson
James Madison
Richard Nixon

22. Other than George H. Bush and George W. Bush, who were the other father and son who served as President?

Lyndon B. Johnson [and Andrew Johnson](#)
Theodore Roosevelt [and Franklin D. Roosevelt](#)
[John Adams and John Quincy Adams.](#)
John Tyler [and](#) Zachary Taylor

23. Which Presidents died in office?

[W. H. Harrison](#)
Zachary Taylor
[Warren Harding](#)
[Franklin Roosevelt](#)

24. Which President served the longest?

Calvin Coolidge
[Franklin Roosevelt](#)
George Bush
Ronald Reagan

25. Who was the first President to live in the White House?

Benjamin Harrison
George Washington
Theodore Roosevelt
John [Adams](#)

Teacher Resource 6
President Facts – Key

Answers are in bold print. Number 23 is not a fluke; all the answers are correct.

1. Which American President was a national hero when America was young?

Herbert Hoover
George Washington
Millard Fillmore
John F. Kennedy

2. This President had a wife whose first name was Martha, but her last name was not Washington.

Thomas Jefferson
Zachary Taylor
John Adams
John Tyler

3. Who was the only President who did not win election to either the office of Vice President or President?

Grover Cleveland
Gerald Ford
James Madison
William H. Taft

4. This President fought in the American Revolution.

William Henry Harrison
John F. Kennedy
Millard Fillmore
James Monroe

5. Who was the youngest person ever to become President?

Thomas Jefferson
John F. Kennedy
John Tyler
Theodore Roosevelt , 42

6. Who was the only President to resign?

John Quincy Adams
Richard Nixon

William McKinley
Woodrow Wilson

7. Which President served the shortest time in office?

Franklin Pierce
Martin Van Buren
James Buchanan
William H. Harrison - one month, 1841.

8. He loved to read and was constantly borrowing books from his neighbors.

Andrew Johnson
Rutherford B. Hayes
Thomas Jefferson
Abraham Lincoln

9. Who was the oldest person ever elected President?

Harry Truman
Theodore Roosevelt
James Garfield
Ronald Reagan - 73

10. This President was a good baseball player.

Theodore Roosevelt
Chester A. Arthur
William H. Taft
Andrew Johnson

11. Who was the only President who had a child born in the White House?.

Benjamin Harrison
Grover Cleveland in 1893
Harry S. Truman
Calvin Coolidge

12. He could see the smoke from his fire room from his balcony.

Herbert Hoover
Richard Nixon
Franklin D. Roosevelt
Warren G. Harding

13. This President was a general in World War 2

Ulysses S. Grant
Andrew Jackson
Dwight D. Eisenhower
Bill Clinton

14. His portrait is on the half-dollar.

John F. Kennedy
George Washington
Thomas Jefferson
Abraham Lincoln

15 Who was the shortest president?

James Polk
Lyndon B. Johnson
James Madison James Madison At 5 feet, 4 inches, he was our shortest president.
Richard Nixon

16. Who was the only President to serve two nonconsecutive terms?

William Henry Harrison
Grover Cleveland
Bill Clinton
Dwight D. Eisenhower

17. At one time he had been a peanut farmer.

Grover Cleveland
James Monroe
Jimmy Carter
Franklin Pierce

18. Sixty-nine days after becoming President, he was shot by John Hinckley Jr.

Calvin Coolidge
Herbert Hoover
George Bush
Ronald Reagan

19. This President fought in World War 2

Benjamin Harrison
George Bush

Theodore Roosevelt
Zachary Taylor

20. Which president had the most children?

Calvin Coolidge
Herbert Hoover
John Tyler
Ronald Reagan

21. Which president was never married?

James Buchanan
Lyndon B. Johnson
James Madison
Richard Nixon

22. Other than George H. Bush and George W. Bush, who were the other father and son who served as President?

Lyndon B. Johnson and Andrew Johnson
Theodore Roosevelt and Franklin D. Roosevelt
John Adams and John Quincy Adams.
John Tyler and Zachary Taylor

23. Which Presidents died in office?

W. H. Harrison
Zachary Taylor
Warren Harding
Franklin Roosevelt

24. Which President served the longest?

Calvin Coolidge
Franklin Roosevelt F. D. Roosevelt, 12 years, 1 month, 8 days.
George Bush
Ronald Reagan

25. Who was the first President to live in the White House?

Benjamin Harrison
George Washington
Theodore Roosevelt
John Adams

Presidential Biographies



George Washington 1st President from 1789-1797

- George Washington was born Feb. 22, 1732 in Westmoreland County, Virginia.
- He fought with the British in the French and Indian War and against them in the Revolutionary War.
- He was unanimously elected as American president in 1789.
- He was the first President to be used and seen on a



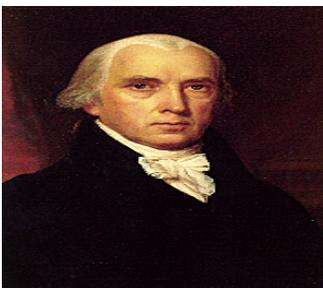
John Adams 2nd President from 1797-1801

- John Adams was born in Braintree, Massachusetts, on October 30, 1735.
- He was the first president to move into the White House in November 1800.
- He and his son both served as president.
- He died ironically on July 4, 1826 which was the 50th anniversary of the Declaration of Independence.



Thomas Jefferson 3rd President from 1801-1809

- Thomas Jefferson was born on April 13, 1743, at **Shadwell in Goochland (now Albemarle) County, Virginia.**
- He was the main author of the Declaration of Independence.
- He had a wife whose first name was Martha.
- He wrote his own epitaph, but never mentioned he was the president.



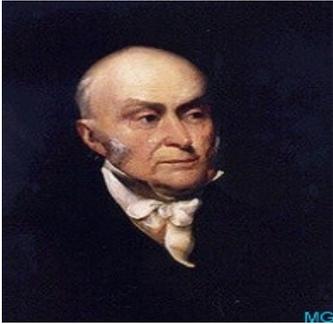
James Madison 4th President from 1809-1817

- James Madison was born on March 16, 1751 in Port Conway, Virginia.
- One of only two presidents (the other being George Washington) to sign the Constitution.
- He was the shortest of all the presidents.



James Monroe 5th President from 1817-1825

- He was born on April 25, 1758 in Westmoreland County, Virginia.
- He fought in the American Revolution and was wounded during that war.
- His daughter was the first to be a bride in the White House.



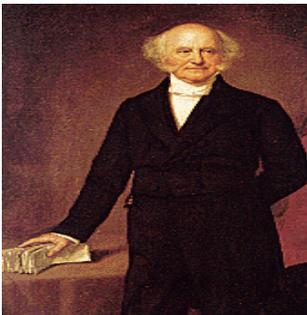
John Quincy Adams 6th President from 1825- 1829

- He was born on July 11, 1767 at Braintree, Massachusetts.
- He and his father both served as president.
- He regularly swam the Potomac River.
- He was the first president to be interviewed by a female reporter.



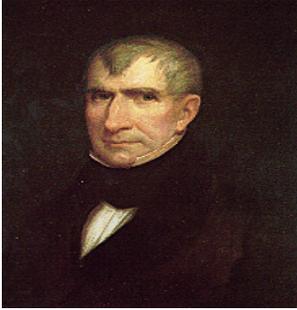
Andrew Jackson 7th President from 1829-1837

- He was born in March 15, 1767 at the Waxhaw settlement, South Carolina.
- He was the first president born in a log cabin.
- He was the president to ride a train.
- The first president to survive an assassination attempt.



Martin Van Buren 8th President from 1837-1841

- He was born on December 5, 1782 in Kinderhook, N.Y
- He was the first president to be born in the United States of America. The previous presidents were born in American colonies.
- The first president from Dutch ancestry.



William Henry Harrison 9th President from 1841-1841

- He was born on Feb. 9, 1773 in Berkeley, Virginia.
- He had the shortest presidency which was only one month.
- He gave the longest inaugural speech at 105 minutes long.
- He died in office on April 4, 1841.



John Tyler 10th president from 1841-1845

- He was born on March 29, 1790 at Greenway, Virginia.
- He was the first vice-president to ascend as president after Harrison died.
- He had the most children – 15 in all.
- “Hail to the Chief” became a tradition and is played when a president appears at a state function.



James K. Polk 11th president from 1845 – 1849

- James K. Polk was born on November 2, 1795 near Pineville, North Carolina.
- His wife hosted the first Thanksgiving dinner in the White House.
- He fulfilled all his campaign promises.



Zachary Taylor 12th president from 1849-1850

- Zachary Taylor was born on November 24, 1784 at Orange County Virginia.
- He did not vote until he was 62 because of his military duty.
- He was the second president to die in office.



Millard Fillmore 13th president from 1850-1853

- Millard Fillmore was born on January. 7, 1800 at Locke, New York.
- He was the last president born in the 18th century.
- He was the first President in U.S. to have a stove in the White House
- He helped fight the Library of Congress fire in 1851.



Franklin Pierce 14th president from 1853-1857

- Franklin Pierce was born on November 23, 1804 at Hillsboro, New Hampshire.
- He gave his inaugural speech without using any notes.
- He was the first president to have a Christmas tree in the White House.



James Buchanan 15th President from 1857-1861

- James Buchanan was born on April 23, 1791 near Mercersburg, Pennsylvania.
- He was never married; his niece served as his hostess.
- Once when the Prince of Wales visited the White House, there were so many guests that he had to sleep in the hall.



Abraham Lincoln 16th president from 1861-1865

- Abraham Lincoln was born on February. 12, 1809 near Hodgenville, Kentucky
- He loved to read and was constantly borrowing books from his neighbors
- Abraham Lincoln had no middle name
- He was the tallest of the presidents at 6'4".
- He was the first president to die by assassination.
- He is one of the most beloved presidents of all time.



Andrew Johnson 17th president from 1865-1869

- Andrew Johnson was born on December 29, 1808 at Raleigh, North Carolina.
- He had no formal education and his wife taught him reading, writing and math.
- He was almost impeached but was acquitted by one vote in the Senate.



Ulysses S. Grant 18th president from 1869-1877

- Ulysses S. Grant was born on April 27, 1822 at Point Pleasant, Ohio.
- He was the Union commander of the army during the Civil War.
- He established Yellowstone National Park as one of the first national parks.



Rutherford B. Hayes 19th president from 1877- 1881

- Rutherford B. Hayes was born on October 4, 1822 at Delaware, Ohio.
- While he was in the army, the Republican Party ran him for the House of Representatives. He refused to campaign because he felt his military duty came first.
- While at the White House, he banished all liquor and wine from the White House.



James A. Garfield 20th president from 1881-1881

- Rutherford B. Hayes was born on October 4, 1822 in Delaware, Ohio.
- He was the last of seven presidents to be born in a log cabin.
- He was the second president to die by assassination – just two months after taking office.
- He was one of three left-handed presidents.



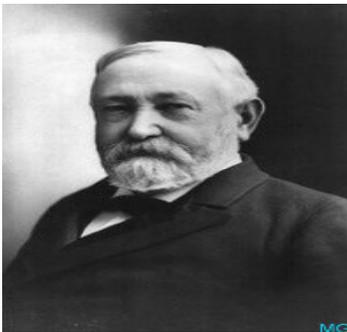
Chester Arthur 21st president from 1881-1885

- Chester A. Arthur was born on October 5, 1829 at Fairfield, Vermont.
- He was nicknamed “Elegant Arthur” for his sense of style.
- He was diagnosed with a fatal kidney disease after he went to office and chose to run for a second term. He was not elected for this term.



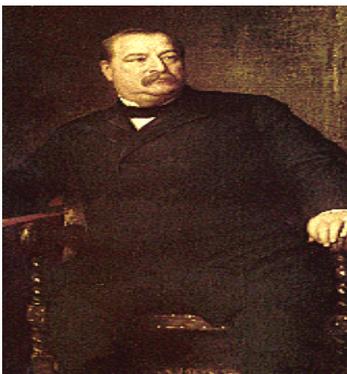
Grover Cleveland 22nd President from 1885-1889

- Grover Cleveland was born on March 18, 1837 at Caldwell, New Jersey.
- He was the only President married in a White House ceremony.
- He was the only President who had a child born in the White House in 1893.
- He was the only President to serve two nonconsecutive terms.



Benjamin Harrison 23rd President from 1889-1893

- Benjamin Harrison was born on August 20, 1833 at North Bend, Ohio.
- He and his grandfather both served as presidents.
- He made 140 completely different speeches in 30 days.



Grover Cleveland 24th President from 1885-1889

- Grover Cleveland was born on March 18, 1837 at Caldwell, New Jersey.
- He was the only President married in a White House ceremony.
- He was the only President who had a child born in the White House in 1893.
- He was the only President to serve two nonconsecutive terms.



William McKinley 25th President from 1897-1901

- William McKinley was born on January 29, 1843 at Niles, Ohio.
- He was the first president to ride in an automobile.
- He was the first president to use the phone as a campaign tool.
- He was the third president to die from an assassin's bullet.



Theodore Roosevelt 26th president from 1901-1909

- Theodore Roosevelt was born on October 27, 1858 at New York, New York.
- He became the youngest president to take office.
- During the Spanish-American War, Roosevelt was a lieutenant colonel of the Rough Rider Regiment
- He won the Nobel Peace Prize for negotiating peace in the Russo-Japanese War



William H. Taft 27th President from 1909-1913

- William H. Taft was born on September 15, 1857 on Cincinnati, Ohio
- This President was a good baseball player.
- He was the heaviest president, weighing 300 pounds.



Woodrow Wilson 28th President from 1913 -1921

- Woodrow Wilson was born on December 29, 1856 at Staunton, Virginia
- He was president during the World War I
- He helped start the League of Nations, which was of the United Nations. the predecessor



Warren Harding 29th President from 1921 – 1923

- Warren G. Harding was born on November 2, 1865 near Blooming Grove, Ohio
- As President, Harding continued to play **golf** and **poker**. He also attended **baseball** games regularly.
- Corruption was evident during his time in office.
- One of the four presidents to die in office.



Calvin Coolidge 30th President from 1923- 1929

- Calvin Coolidge was born on July 4, 1872 at Plymouth Notch, Vermont.
- The only president born on July 4th.
- He was given the oath of office by his father who was a notary public at 2:47 a.m. on August 3, 1923.



Herbert Hoover 31st President from 1929 -1933

- Herbert C. Hoover was born on August 10, 1874 at West Branch, Iowa.
- After the United States entered the WWI., President Wilson appointed Hoover over the Food Administration. He helped cut food consumption overseas and avoided rationing at home, while kept the Allies fed.
- He was President during the Great Depression.
- He could see the smoke from the fire at his room from his balcony.



Franklin D. Roosevelt 32nd President from 1933-1945

- Franklin D. Roosevelt was born on January 30, 1882 at Hyde Park, New York.
- He was the only President elected for 4 terms.
- He was the first president whose mother could vote him because women gained the right to vote.
- He was paralyzed from polio and served his entire presidency without the use of his legs.



Harry S. Truman 33rd President from 1945-1953

- Harry S. Truman was born on May 8, 1884 at Lamar, Missouri.
- He was the first president to travel underwater on a submarine.
- He was one of three left-handed presidents.
- He was the first president to give a speech on television.



Dwight D. Eisenhower 34th President from 1953-1961

- Dwight D. Eisenhower was born on October 14, 1890 at Denison, Texas.
- This President fought in World War 2.
- He was the only President to serve in WWI and WWII.
- His slogan during his campaign was “I like Ike”.



John F. Kennedy 35th President from 1961-1963

- John F. Kennedy was born on May 29, 1917 at Brookline, Massachusetts.
- He was the only Roman Catholic President.
- He was the first president born in the 20th century.
- He was youngest elected President.
- He was the fourth president to be assassinated.
- He was the only president to have died before his parents.
- .His portrait is on the half-dollar.



Lyndon B. Johnson 36th President from 1963-1969

- Lyndon B. Johnson was born on August 27, 1908 near Stonewall, Texas.
- He became the president when Kennedy died and was given the oath of office on an airplane.
- He was the first President to put an African American person in his cabinet.



Richard Nixon 37th President from 1969-1874

- Richard M. Nixon was born on January 9, 1913 at Yorba Linda, California.
- He was the first president to visit all 50 states and China during his term.
- He was the first US president to resign from office.



Gerald R. Ford 38th President from 1974-1977

- **Gerald R. Ford** was born on July 14, 1913 at Omaha, Nebraska..
- President Gerald Ford had a different name; it was Leslie King?
- He was the only President who did not win election to either the office of Vice President or President
- He was one of three left-handed presidents.



Jimmy Carter 39th President from 1977-1981

- Jimmy Carter was born on October 1, 1924 at Plains, Georgia.
- He was the first U.S. President to be born in a hospital
- At one time he had been a peanut farmer.
- He was known for his speed reading; he could read 2000 words a minute.



Ronald Reagan 40th President from 1981-1989

- Ronald W. Reagan was born on February 6, 1911 at Tampico, Illinois.
- He was the oldest person ever elected President at 73.
- He was the first actor who became president.
- He was voted twice as *Time's* Man of the Year.



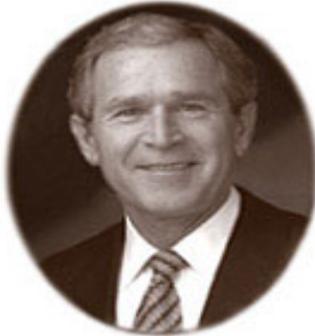
George H. W. Bush 41st President from 1989 -1993

- George H. W. Bush was born on June 12, 1924 at Milton, Massachusetts.
- He and his son were one of two father-son teams to become presidents.
- He is distantly related to four other presidents.
- He fought in World War II as a pilot.



William Jefferson Clinton 42nd President from 1993-2001

- William Jefferson "Bill" Clinton was born on August 19, 1946 at Hope, Arkansas
- He was the first president to be a Rhodes scholar.
- He met President Kennedy in 1962; this influenced his life in public service.



George W. Bush 43rd President from 2001-2008

- George W. Bush was born on July 6, 1946 at New Haven, Connecticut
- He and his father were one of two father-son teams to become presidents.
- He was a pilot in Texas National Air Guard from 1968-1973.
- He was also one of the first managing general partners for a Major League baseball team.

Name _____ Date _____

Presidential Fact Finder

Directions: Using the <http://ap.grolier.com/> website, complete this chart for your President.

President and Number of President

Years in office (ex. 1993-2001)	
Age while entering office	
Political Affiliation (Republican/Democrat/Other)	
Name an important event that took place during his presidency	
Before Becoming President	
Date of Birth	
Place of Birth	
Education	
Military service (yes, if served and no, if did not serve)	
Religion	
Job/Profession	

Statistician's Name _____

Date _____

United States Presidents	Age In Years When Inaugurated
1. George Washington	57
2. John Adams	61
3. Thomas Jefferson	57
4. James Madison	57
5. James Monroe	58
6. John Quincy Adams	57
7. Andrew Jackson	61
8. Martin van Buren	54
9. William Henry Harrison	68
10. John Tyler	51
11. James K. Polk	49
12. Zachary Taylor	64
13. Millard Fillmore	50
14. Franklin Pierce	48
15. James Buchanan	65
16. Abraham Lincoln	52
17. Andrew Johnson	56
18. Ulysses S. Grant	46
19. Rutherford B. Hayes	54
20. James A. Garfield	49
21. Chester A. Arthur	51
22. Grover Cleveland	47
23. Benjamin Harrison	55
24. Grover Cleveland	55
25. William McKinley	54

26. Theodore Roosevelt	42
27. William H. Taft	51
28. Woodrow Wilson	56
29. Warren G. Harding	55
30. Calvin Coolidge	51
31. Herbert C. Hoover	54
32. Franklin D. Roosevelt	51
33. Harry S. Truman	60
34. Dwight D. Eisenhower	62
35. John F. Kennedy	43
36. Lyndon B. Johnson	55
37. Richard M. Nixon	56
38. Gerald Ford	61
39. Jimmy Carter	52
40. Ronald Reagan	69
41. George Herbert Walker Bush	64
42. William Jefferson Clinton	46
43. George W. Bush	50

Presidential Candidates for 2008	Age In Years Candidate Will Be At Inauguration
Barack Obama	47
John McCain	72
Ralph Nader	74

Statistician's Name

Date _____

Find the range, median, mode and mean of the presidents' ages when they were inaugurated. Show all your work.

Youngest President



Theodore Roosevelt

Oldest President



Ronald Reagan

The range is _____.

The median is _____.

The mode is _____.

The mean is _____.

Teacher Resource 7

Answer Key

Find the range, median, mode and mean of the presidents' ages when they were inaugurated. Show all your work.

Youngest President



Theodore Roosevelt

Oldest President



Ronald Reagan

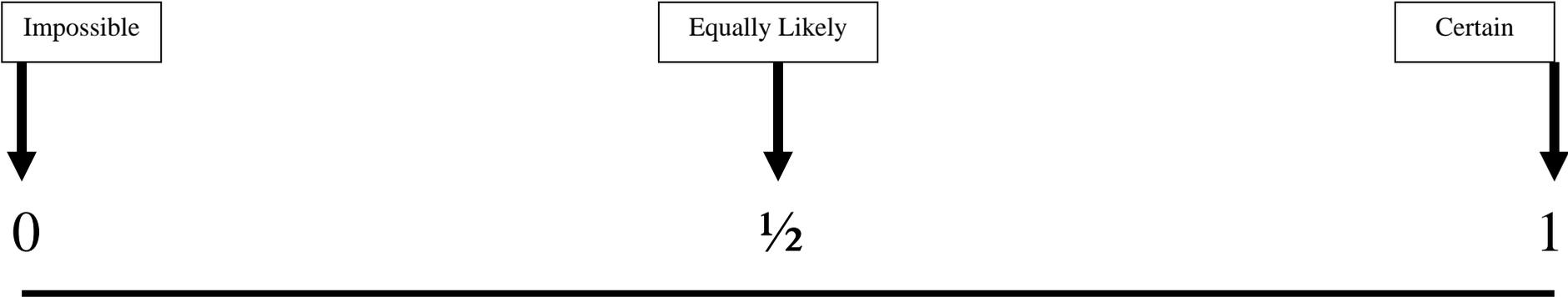
The range is 27 years.

The median is 55 years.

The modes are 51, 54, 55, and 57 years.

The mean is 54.7 years.

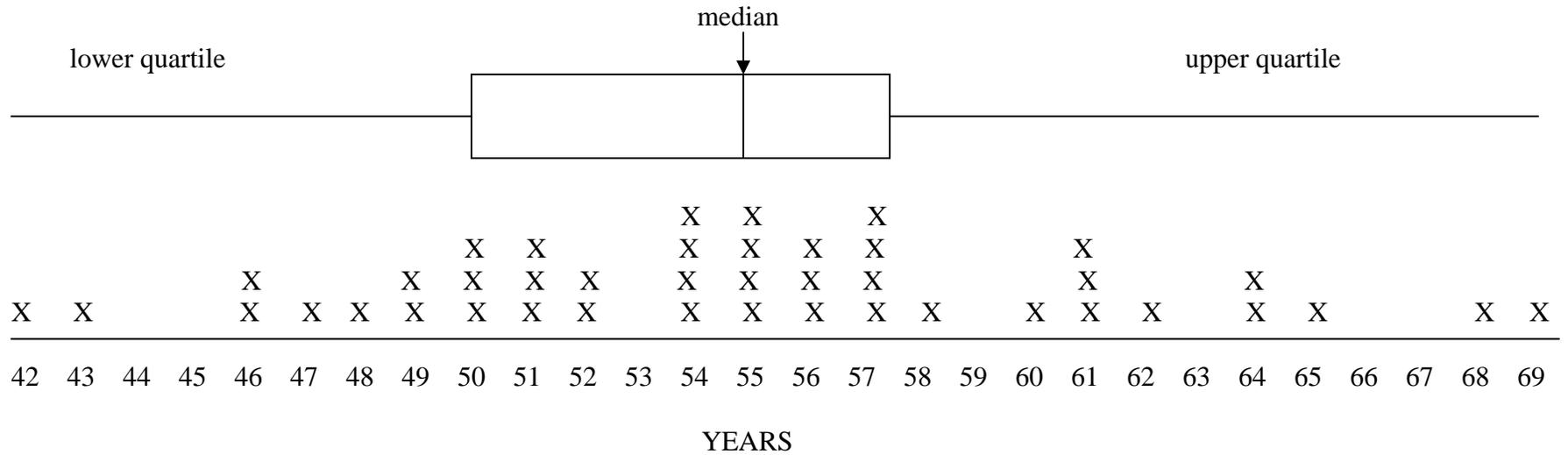
Probability Scale



Teacher Resource 8

Ages of United States Presidents When Inaugurated

Key
X = former presidents



Name _____ Date _____

Presidential Candidate Fact Finder

_____ Candidate

Previous Political experience	
Age while campaigning for president	
Political Affiliation (Republican/Democrat/Other)	
What would make him a good president?	
Personal Information	
Date of Birth	
Place of Birth	
Education	
Military service (Yes, if served and no, if did not serve)	
Religion	
Job/Profession	

Presidential Candidate Fact Finder

John McCain

Candidate

Previous Political experience	Senator from Arizona
Age while campaigning for president	71
Political Affiliation (Republican/Democrat/Other)	Republican
What would make him a good president?	He is a seasoned candidate with much experience and he has worked with both parties while a senator.
Personal Information	
Date of Birth	Panama Canal Zone, Panama
Place of Birth	08/29/1936
Education	National War College, 1973-1974 BS, United States Naval Academy, 1958.
Military service (yes, if served and no, if did not serve)	Yes
Religion	Episcopalian
Job/Profession	Military Officer

Presidential Candidate Fact Finder

Ralph Nader

Candidate

Previous Political experience	Candidate, United States President, 1992, 1996, 2000, 2004.
Age while campaigning for president	74
Political Affiliation (Republican/Democrat/Other)	Independent – Green Party
What would make him a good president?	He will not cater to special interest groups and has worked to make a difference in consumer affairs/
Personal Information	
Date of Birth	02/27/1934
Place of Birth	Winsted, Connecticut
Education	LLB, Harvard Law School, 1958 AB, East Asian Studies, Woodrow Wilson School of International Affairs, Princeton University, 1955
Military service (yes, if served and no, if did not serve)	Yes
Religion	Christian
Job/Profession	Lawyer/ Author/Lecturer Consumer Advocate

Presidential Candidate Fact Finder

Barack Obama

Candidate

Previous Political experience	Senator from Illinois
Age while campaigning for president	47
Political Affiliation (Republican/Democrat/Other)	Democrat
What would make him a good president?	He believes that change is important to head our country in the right direction.
Personal Information	
Date of Birth	08/04/1961
Place of Birth	Honolulu, Hawaii
Education	JD, Harvard Law School, 1991 BA, Columbia University, 1983
Military service (Yes, if served and no, if did not serve)	No
Religion	United Church of Christ
Job/Profession	Lawyer

Student's Voting Ballots

Please choose the candidate that you think will win based on what you learned.

Barack Obama



John McCain



Ralph Nader



Name _____

Date _____

Summative Assessment for Data Analysis: Line Plots, Box and Whisker Plots and Central Tendencies

How many pets did our presidents have?



1. Visit the following website to gather data to answer the question:
http://en.wikipedia.org/wiki/List_of_United_States_Presidential_pets
2. Record your data. Then organize it. Turn in your data also.
2. Display your data in a line plot. Use 1- cm grid paper.

Remember to include:

- _____ Title
- _____ Key
- _____ Number line correctly labeled
- _____ Number line correctly numbered
- _____ Correct number of symbols (can be Xs)

3. Find the range, median, mode, and mean of the pet data. Show all your work. You may check your answers with a calculator.

The range is _____.

The median is _____.

The mode is _____.

The mean is _____.



Brief Constructed Response



Step A

Use the presidents' pet data to draw a box and whisker plot.

Step B

Use what you know about box and whisker plots to explain why your answer is correct. Use words and/or numbers in your explanation.



To be the president of the United States you must:



- Be a natural born citizen.
- Be at least 35 years old.
- Have lived in the United States for 14 years.

Other Information

How to Make a Box and Whiskers Plot

Step 1: Find the median.

Step 2: Look at the data to the left of the median. Find the median of this set of data. This is the lower quartile.

Step 3: Look at the data to the right of the median. Find the median of this set of data. This is the upper quartile.

Step 4: Make a number line for your set of data. Make a vertical line above the median.

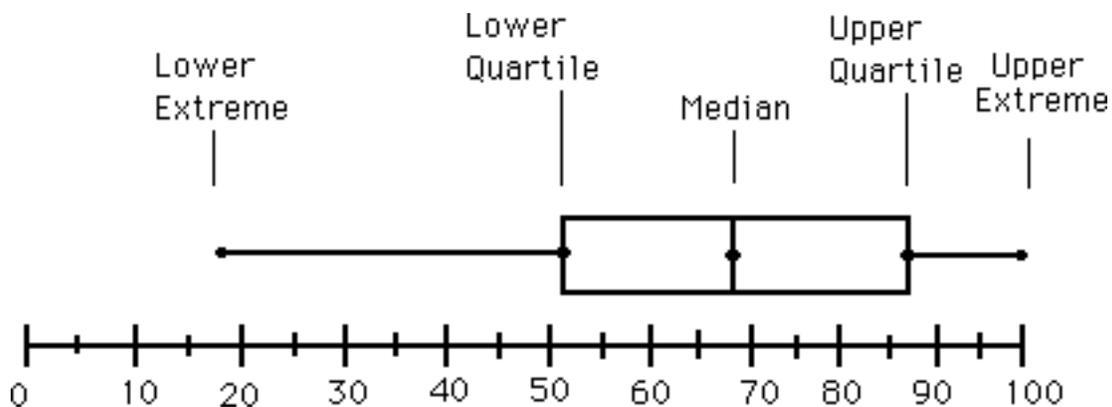
Step 5: Make vertical lines above both the lower quartile and the upper quartile.

Step 6: Draw a rectangle. The left side is the lower quartile and the right side is the upper quartile.

Step 7: Draw a point above the least number and a point above the greatest number.

Step 8: Draw a horizontal line that connects the left side of the rectangle to the lower extreme. Draw a horizontal line that connects the right side of the rectangle to the upper extreme.

Example of a Box and Whisker Plot:



Data used for this Box and Whiskers Plot:

18, 26, 33, 52, 53, 58, 60, 68, 77, 81, 84, 87, 90, 92, 100

Other Information

BOOKS to Teach about the Election Process

America Votes: How Our President Is Elected

Granfield, Linda. Tonawanda, NY: Kids Can Press Ltd., 2003.

This is an easy to read nook with, fun chapters. Students learn much on elections including the history of the political button as well as the past problems with some ballots. Kids will enjoy the interesting facts.

Arthur Meets the President

Brown, Marc Tolon; Little, Brown and Company, 1992

Arthur writes a composition that wins a prize which ultimately gets him to meet the President. This is especially good for younger students.

Class President

Hurwitz, Johanna. New York: Morrow Junior Books, 1990.

The fifth grade class wants to pick a class president, but unexpected things happen. The best choice for president is not the popular candidate.

Duck for President

Cronin, Doreen. New York: Simon & Schuster Books for Young Readers, 2004.

Farmer Brown makes some decisions that the animals don't like. Duck wants an election and decides to run for office. He first becomes a farm leader, moves up to governor, and finally runs for president. However he finds out that things are not as easy as it looks.

How the U.S. Government Works

Sobel, Syl and Pam Tanzey Hauppauge, N.Y., Barron's, 1999

In this book students will understand how the voting process works, as well as how the campaign and election process works.

If I Were President

Stier, Catherine. Morton Grove, IL: Albert Whitman & Company, 1999.

Students will spend the day as President of the United States and find out that it not easy.. The students will learn about the responsibilities of the President and how he makes many difficult decisions

Landslide!: A Kid's Guide to the U.S. Elections

Gutman, Dan, Simon and Schuster, 06/01/2000

Explanations on how Elections work and explains vocabulary in terms children can understand.

Marvin Redpost Class President

Sachar, Louis; Random House Books for Young Readers, March 16, 1999
Everyone at Marvin's school is in for a surprise when The President of the United States makes a surprise visit on "hole day." Everyone in Marvin's class, including the teacher, is wearing holey clothes.

A Mice Way to Learn About Government : A Curriculum Guide

Barnes, Peter W., Cheryl S. Barnes, Betty Shepard; Vacation Spot Pub; 1999
This is a curriculum guide which contains fun and creative activities with Woodrow and Friends.

President Citizen

Goffe, Toni, Child's Play International Ltd, September 1996
This book explains how a person is elected as the president and what the things are the President does. It challenges the reader to think about whether they can become president.

Presidential Elections and Other Cool Facts (2nd edition)

Sobel, Syl. Hauppauge, NY: Barron's Educational Series, Inc., 2001.
Students learn about Presidential elections and what the rules are those help the elections to stay honest. This book will answer several questions which include: What is an Electoral College and how it works as well as what are the qualifications to be the President. There are many interesting facts on the president.

Robert Takes a Stand

Seuling, Barbara. Chicago: Cricket Books, 2004.
Robert is dedicated to saving endangered animals, and he finds out how hard it is stay true to that stand. He decides to help his friend, Paul, who is running for class president. There some misunderstandings about the how to campaign and win the election. However they learn a lot in the process.

So You Want to Be President

St. George, Judith, David Small, Libri, United States, August 2000
Using cartoon characters, this book contains interesting facts about some of the former presidents. It also talks about the similarities and differences of these past American Presidents.

Vote!

Christelow, Eileen. New York: Clarion Books, 2003.

This the story of how two pet dog volunteers learn about the political process as they watch and participate in the two campaigns of two mayoral candidates. They attend rallies for the candidates, watch how the voters weigh the facts and issues affecting the candidates, and observe how the candidates raise money for their campaigns. As they observe and participate, they learn why voting is important, how various people got their voting rights, and about the how election process works.

Voting and Elections

Fradin, Dennis Brindell, Scholastic Library Publishing Pub, November 1985

This book answers many questions on elections with interesting pictures and easy to read text. It also contains a glossary which further explains unknown terms

Voting and Elections

Murphy, Patricia J. Minneapolis, MN: Compass Point Books, 2002.

Students will learn certain vocabulary that is used in presidential elections like candidate and political party. It is written in a way that students will understand what these words mean.

Woodrow for President: A Tail of Voting, Campaigns, and Elections
Barnes, Peter W. (Author), Cheryl Shaw Barnes_(Illustrator), Vacation Spot Pub., 1999

Woodrow is a little mice who grows up thinking that he may become the President of the United States

Woodrow, the White House Mouse

Barnes, Peter W., Cheryl Shaw Barnes, Peter Shaw Barnes; Scholastic; 2000
As the President, Woodrow G. Washingtall gives us a tour of their home to learn about the White House

Other Information

Helpful Websites to Use with Students

<http://www.annieshomepage.com/presidents2.html> : Great information on elections and even presidential trivia.

<http://ap.grolier.com/> : Great pictures and information on the presidents.

<http://ellerbruch.nmu.edu/cs255/jnord/boxplot.html>: Defines data analysis terms

<http://www.electoral-vote.com/> Projection of presidential winner by state.

<http://www.embaixada-americana.org.br/elections/portrait.htm>: Great pictures of the presidents.

http://www.mibuscador.net/enciclopedia/es/wikipedia/b/be/benjamin_harrison.html : Great pictures of the presidents

<http://gardenofpraise.com/quad32.htm>; Great information on the presidents.

<http://ap.grolier.com/>: Great research site to get background info on the different American presidents.

<http://pbskids.org/democracy/> This website talks about how one vote can change history and who was allowed to vote through the years. It actually has a place where kids can access what a voting booth looks like and even vote.

<http://pbskids.org/democracy/vote/castvote.html> Student get to vote on issues and what they think should be done to support those issues.

http://pbskids.org/wayback/prez/secrets/president_05.html : Interesting facts about the presidents.

<http://pbskids.org/zoom/fromyou/elections/elections101.html>: Explains how an election works and why it is important to vote.

<http://www.pocanticohills.org/election/president.htm>: Great website for explaining the election process from the beginning of candidacy to the election. The graphics are especially good. There is very little on independent candidates.

<http://teacher.scholastic.com/scholasticnews/indepth/election2008.htm> : This website gives all the news about the election, written at a level most students can understand.

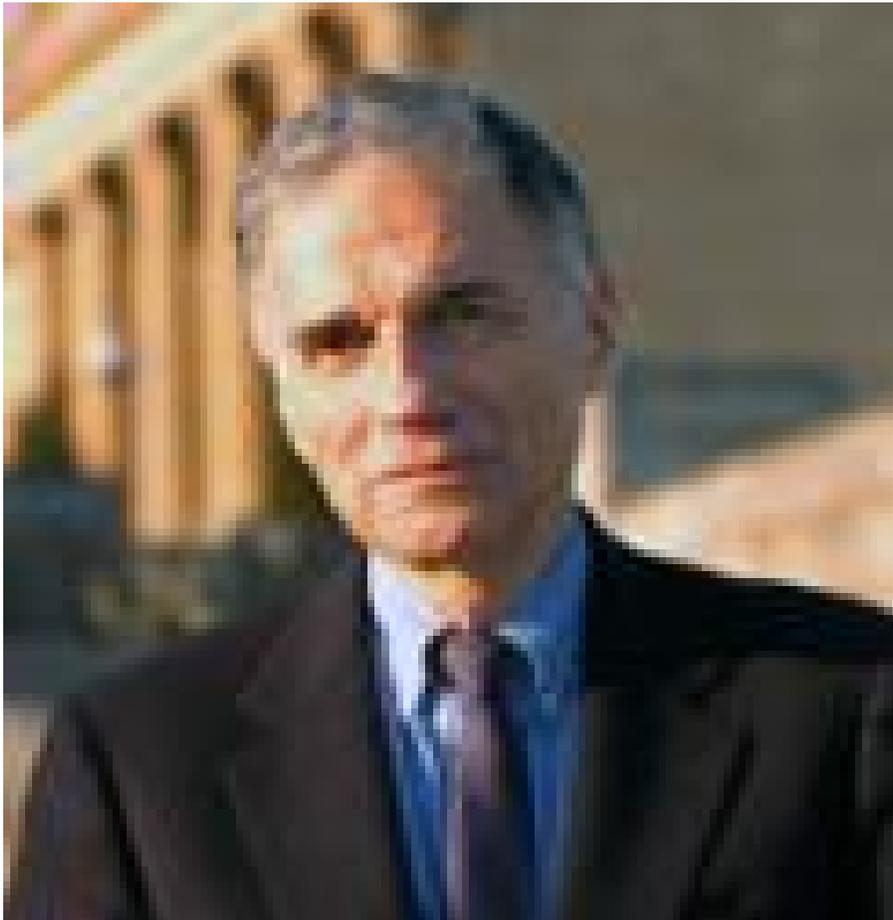
http://www.timeforkids.com/TFK/election08/cand_obama.html: This website is a good one for keeping the students informed about the election. The biographies on the candidates are also very good.

<http://www.weeklyreader.com/election/index.asp> : Current events about the upcoming election is included in this website. It also contains information on the election process.

http://en.wikipedia.org/wiki/Heights_of_United_States_Presidents_and_presidential_candidates: This site will need to be accessed to use for the heights of the presidents.

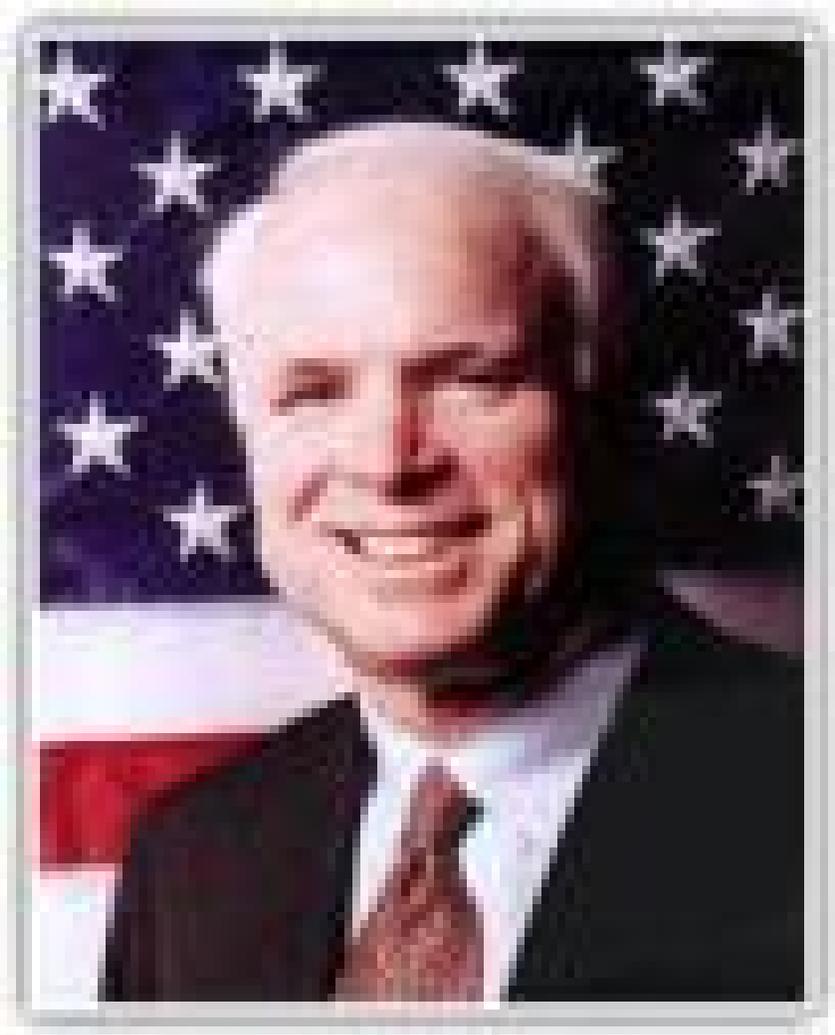
[ZOOMout the Vote Guide](#): This website shows students why it's important to vote (it's a PDF: 816k, 16 pages, adobe acrobat required). It also gives the student ideas for getting the adults in their family to register to vote. It even includes simple instructions for planning a voter registration drive.

Vote for Ralph Nader



Vote

for John McCain



Vote for Barack Obama



