

# Solving Equations with fractions Scavenger Hunt Game

John Tyler  
10<sup>th</sup> president: 1841 - 1845



$$x = -7$$

John F.  
Kennedy  
35<sup>th</sup> president: 1961 - 1963



Solve.

$$\frac{3}{4}x - \frac{1}{20} = \frac{7}{10}$$

$$x = -3$$

# Solving Equations with Fractions Scavenger Hunt Game

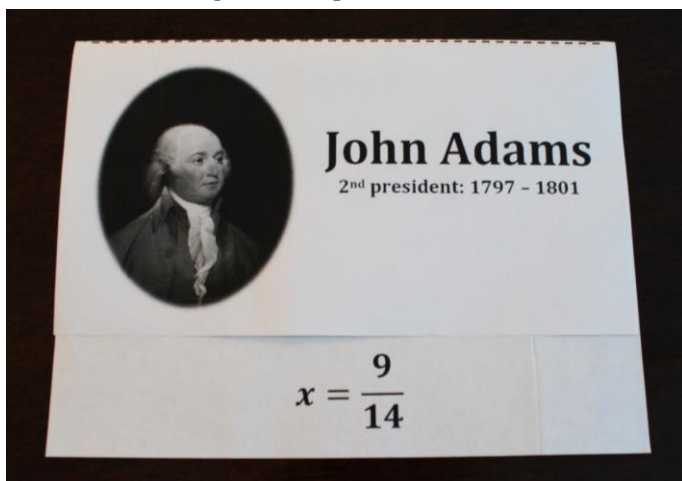
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## Materials Included

- Directions
- Teacher's Key
- Student Worksheet
- Scavenger Hunt Problems

## Teacher Preparation

1. Print teacher's key and student worksheet (pages 4 - 6).
2. Make copies of the student worksheet for every student in your class.
3. Print the scavenger hunt problems (pages 7-38). **The scavenger hunt problems must be printed double-sided (page 7 is printed on the back of page 8, etc.).** You may have to manually print on both sides or you may have to use a duplex setting on the printer.
4. Fold the scavenger hunt problems on the dotted line.




5. Tape the scavenger hunt problems around the classroom making sure that students are able to reach them.

## Getting Students Started

1. Pass out the student worksheets.
2. The first few times I do a scavenger hunt with a class I work through one scavenger hunt problem with the class. If possible, project the student worksheet on the SMART Board or document camera.
3. Students will start at a scavenger hunt problem by writing down the president on the outside flap.
4. Students will then open the flap and write down the problem on the inside.
5. Students will find the answer to the problem on their worksheet.

6. Students will then search for the answer on the bottom of another scavenger hunt problem around the classroom. Students will write down the president once they've found it and repeat the process.




**John Adams**  
2<sup>nd</sup> president: 1797 - 1801

**Solve.**

$$\frac{2}{3}x + \frac{1}{3} = \frac{5}{3}$$

$$x = \frac{9}{14}$$



**Chester Arthur**  
21<sup>st</sup> president: 1881 - 1885

**Solve.**

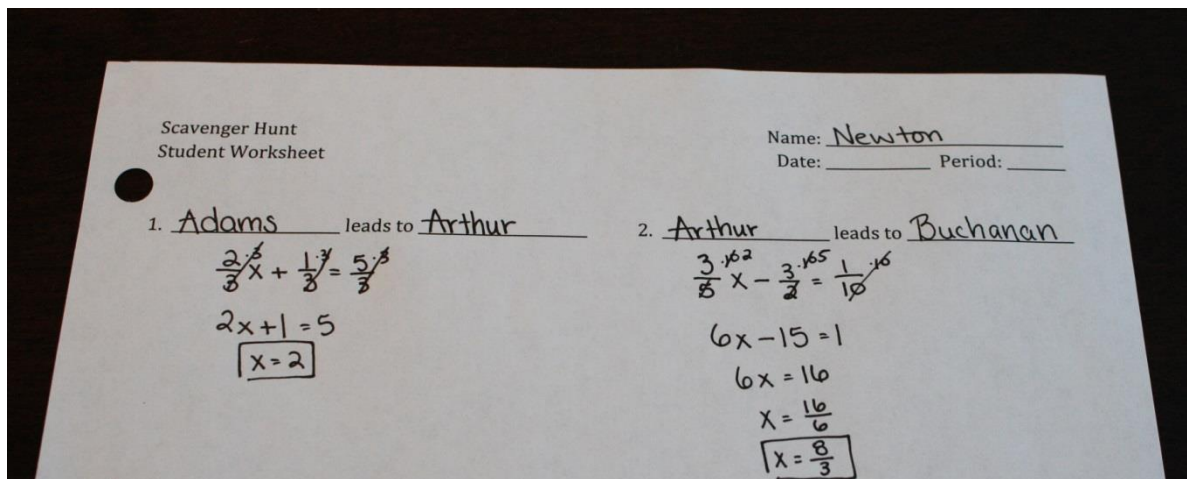
$$\frac{3}{5}x - \frac{3}{2} = \frac{1}{10}$$

$$x = 2$$

A blue arrow points from the solution  $x = \frac{9}{14}$  in the Adams box to the solution  $x = 2$  in the Arthur box.

7. Students will know that they are finished when they loop back around to the scavenger hunt problem they started with.

Example Student Worksheet:



I hope that you and your students enjoy the scavenger hunt game. If you ever have any questions, please let me know. I am always looking for ways to improve so please leave your feedback and rating. Thank you!

All president images are public domain images found using Wikimedia Commons.

## **Scavenger Hunt Teacher Key**

Adams leads to Arthur

Arthur leads to Buchanan

Buchanan leads to Cleveland

Cleveland leads to Harrison

Harrison leads to Jefferson

Jefferson leads to Kennedy

Kennedy leads to Lincoln

Lincoln leads to Madison

Madison leads to Polk

Polk leads to Quincy Adams

Quincy Adams to Roosevelt

Roosevelt leads to Tyler

Tyler leads to Van Buren

Van Buren leads to Washington

Washington leads to Wilson

Wilson leads to Adams (go to top of page)

Students will be starting in different places for the scavenger hunt. To use this key, you must find where the student started and go from there. (Hint: the presidents are in alphabetical order)

Scavenger Hunt  
Student Worksheet

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Period: \_\_\_\_\_

1. \_\_\_\_\_ leads to \_\_\_\_\_

2. \_\_\_\_\_ leads to \_\_\_\_\_

3. \_\_\_\_\_ leads to \_\_\_\_\_

4. \_\_\_\_\_ leads to \_\_\_\_\_

5. \_\_\_\_\_ leads to \_\_\_\_\_

6. \_\_\_\_\_ leads to \_\_\_\_\_

7. \_\_\_\_\_ leads to \_\_\_\_\_

8. \_\_\_\_\_ leads to \_\_\_\_\_

9. \_\_\_\_\_ leads to \_\_\_\_\_

10. \_\_\_\_\_ leads to \_\_\_\_\_

11. \_\_\_\_\_ leads to \_\_\_\_\_

12. \_\_\_\_\_ leads to \_\_\_\_\_

13. \_\_\_\_\_ leads to \_\_\_\_\_

14. \_\_\_\_\_ leads to \_\_\_\_\_

15. \_\_\_\_\_ leads to \_\_\_\_\_

16. \_\_\_\_\_ leads to \_\_\_\_\_



**John Adams**  
2<sup>nd</sup> president: 1797 - 1801



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**Solve.**

$$\frac{2}{3}x + \frac{1}{3} = \frac{5}{3}$$

$$x = \frac{9}{14}$$



21<sup>st</sup> president: 1881 - 1885

# Arthur Chester



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**Solve.**

$$\frac{3}{5}x - \frac{3}{2} = \frac{1}{10}$$

$$x = 2$$



15<sup>th</sup> president: 1857 - 1861

**Buchanan**

**James**

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**Solve.**

$$\frac{1}{4} + 2x = \frac{1}{12}$$

$$x = \frac{8}{3}$$

1885 - 1889, 1893 - 1897  
22<sup>nd</sup> and 24<sup>th</sup> president:

# Grover Cleveland



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**Solve.**

$$\frac{19}{24} - \frac{1}{6}x = \frac{1}{8}$$

$$x = -\frac{1}{12}$$

23<sup>rd</sup> president: 1889 - 1893

# Benjamin Harrison



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**Solve.**

$$\frac{1}{2} + \frac{1}{3}x = -\frac{1}{3}x + \frac{1}{6}$$

$$x = 4$$



3<sup>rd</sup> president: 1801 - 1809

# Thomas Jefferson



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**Solve.**

$$-\frac{32}{35} = \frac{2}{5}x + \frac{2}{7}$$

$$x = -\frac{1}{2}$$

35<sup>th</sup> president: 1961 - 1963

**Kennedy**

**John F.**



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**Solve.**

$$\frac{3}{4}x - \frac{1}{20} = \frac{7}{10}$$

$$x = -3$$

16<sup>th</sup> president: 1861 - 1865

# Abraham Lincoln



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**Solve.**

$$\frac{3}{5}x + 21 = 12$$

$$x = 1$$

4<sup>th</sup> president: 1809 - 1817

# James Madison



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**Solve.**

$$-\frac{3}{2}x + 7 = -2$$

$$x = -15$$



# James Polk

11<sup>th</sup> president: 1845 - 1849



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**Solve.**

$$\frac{1}{2}x - \frac{2}{3} = \frac{1}{6} + \frac{7}{12}x$$

$$x = 6$$

John Quincy  
Adams  
6<sup>th</sup> president: 1825 - 1829



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**Solve.**

$$-\frac{1}{2} + 4x = \frac{39}{2}$$

$$x = -10$$



32<sup>nd</sup> president: 1933 - 1945

**Roosevelt**

**Delano**

**Franklin**



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**Solve.**

$$\frac{1}{2}(-12x - 8) = 38$$

$$x = 5$$

10<sup>th</sup> president: 1841 - 1845

# John Tyler



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**Solve.**

$$\frac{2}{3} - \frac{5}{33}x = -\frac{23}{33}$$

$$x = -7$$



8<sup>th</sup> president: 1837 - 1841

**Van Buren**

**Martin**



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**Solve.**

$$\frac{2}{3}x = -12$$

$$x = 9$$

George  
Washington

1<sup>st</sup> president: 1789 - 1797



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**Solve.**

$$-\frac{7}{16} = \frac{9}{16} - \frac{1}{8}x$$

$$x = -18$$

28<sup>th</sup> president: 1913 - 1921

# Wilson Woodrow



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**Solve.**

$$x + \frac{6}{7} = \frac{3}{2}$$

$$x = 8$$