

## Political Box and Whiskers

Name: \_\_\_\_\_  
Color: \_\_\_\_\_  
Date: \_\_\_\_\_

For the period 1900 – 2016 the following table lists the age of each President of the United States at the time of his first inauguration based on his political party affiliation.

1. Draw one number line for the two data sets (use a ruler and evenly space your intervals).
2. Make two box and whisker plots, one for the Republicans and one for the Democrats. Use a ruler. One plot should be above the number line and one box plot should be below the other. The plots should be labeled.
3. Give your plots a Title.
4. Below the plots write a few sentences describing any conclusions that you can make about the ages of Republican presidents versus Democrat presidents during the last century plus.
5. Be neat.

Republicans:

54, 42, 51, 55, 51, 54, 62, 56, 61, 69, 64, 54, 70

Democrats:

56, 51, 60, 43, 55, 52, 46, 47

# Integer Review A

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

Class: \_\_\_\_\_

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

Simplify the following problems:

1.  $2 + (-10) =$

2.  $-12 - 3 =$

3.  $-9 + (-11) =$

4.  $-4 - (-6) =$

5.  $10 + 14 =$

6.  $2 - 15 =$

7.  $-5 + 7 =$

8.  $14 - (-2) =$

9.  $\frac{-48}{6} =$

10.  $\frac{-36}{-9} =$

11.  $(-2)(5)(3)(-2) =$

12.  $\frac{18}{-3} =$

13.  $\frac{55}{11} =$

14.  $15(-3) =$

Simplify for  $a = -2$ ,  $b = 3$ ,  $c = -1$

13.  $abc - ac$

14.  $a^2 + b^2$

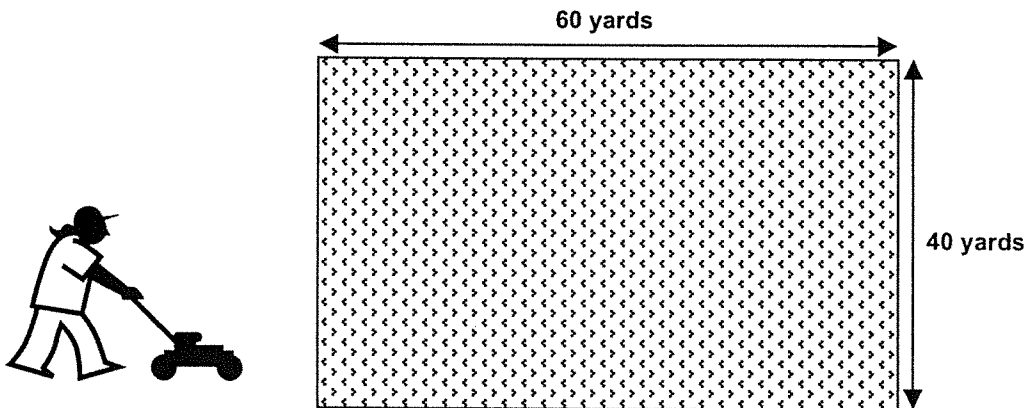
15.  $\frac{ab}{c}$

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## Lawn Mowing

This problem gives you the chance to:

- solve a practical problem involving ratios
  - use proportional reasoning
- 



Dan and Alan take turns cutting the grass.  
Their lawn is 60 yards long and 40 yards wide.

1. What is the area of the yard? \_\_\_\_\_ square yards

Dan takes an hour to cut the lawn using an old mower.

2. How many square yards does Dan cut in a minute?  
Show your work. \_\_\_\_\_

Alan only takes 40 minutes using a new mower.

3. How many square yards does Alan cut in a minute?  
Show your calculation. \_\_\_\_\_

4. One day they both cut the grass together.  
How long do they take?  
Show how you figured it out. \_\_\_\_\_