

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

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

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

# Algebra I CW

## Plotting Irrational Numbers

Simplify the following radical expressions then draw a number line and plot the approximate location of the point.

1.  $-\sqrt{20}$

2.  $2\sqrt{23}$

3.  $\frac{\sqrt{75}}{\sqrt{3}}$

4.  $3\sqrt{17}$

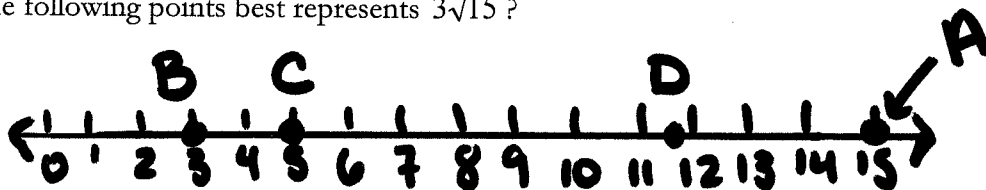
5.  $\sqrt{2}\sqrt{8}$

6.  $\sqrt{5}\sqrt{15}$

7.  $2\sqrt{6}$

8.  $\frac{\sqrt{24}}{\sqrt{2}}$

11. Which of the following points best represents  $3\sqrt{15}$ ?



12. Plot the following three irrationals on a number line, then order them from smallest to largest.

$$\sqrt{12}, 7\sqrt{5}, \sqrt{\frac{15}{5}}$$

Number line:

Order from smallest to largest: