

Name: Key
Mrs. Rombost

Date: 8A

The Real Number System Algebra 1 Homework

1. Which of the following is not an integer? *Why?*

(1) -13

(2) $\frac{8}{2} = 4$

(3) $\sqrt{36} = 6$

(4) $\frac{13}{5}$

2. Which of the following is a rational number? *Why?*

(1) $\sqrt{5}$

(2) $\frac{\pi}{2}$

(3) $-\frac{3}{2}$

(4) $\sqrt{20}$

3. Which of the following numbers is an integer but not a whole number?

(1) -5

(2) $\frac{12}{3} = 4$

(3) π

(4) 8

4. Which of the following numbers is a rational number but not an integer?

~~(1) $\sqrt{12}$, Irrat~~

(2) $-\frac{3}{7}$
R

(3) $\frac{15}{3} = 5$
R + Integer

~~(4) -6, Integer~~
R

5. Determine the value of each variable shown below to the nearest hundredth. Then, plot the points on the number line.

$a = \sqrt{14} \approx 3.74$

$b = \frac{237}{102} \approx -2.32$

$c = \frac{3\pi}{2} \approx 4.71$

$d = \frac{-\sqrt{93}}{3} \approx -3.21$

