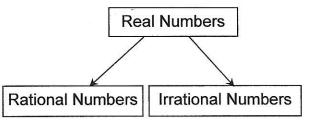
Name	Date
Mrs. Roumbos	8R Period

Homework Day 2

The set of rational numbers contains all integers, all fractions, and decimals that end or repeat.

Irrational numbers can only be written as decimals that do not end or repeat.



Together, the rational numbers and the irrational numbers form the set of real numbers.

perfect squares are rational.

Square roots of numbers that are Square roots of numbers that are not perfect squares are irrational.

$$\sqrt{25} = 5$$

$$\sqrt{3} = 1.732050807...$$

Tell if each number is rational or irrational.

1) $\sqrt{7}$

- 3 √169
- 4.2684579...

5) 2

- 7) √81
- 8 .32323232...

The square of a nonzero number is positive. $3^2 = 9$ and $(-3)^2 = 9$ So, the square root of a negative number is not a real number.

$$\sqrt{-9}$$
 is not a real number.

Tell if each number is real or not real.

- 9 –.825
- 10) $-\sqrt{12}$
- 11**)** √–8