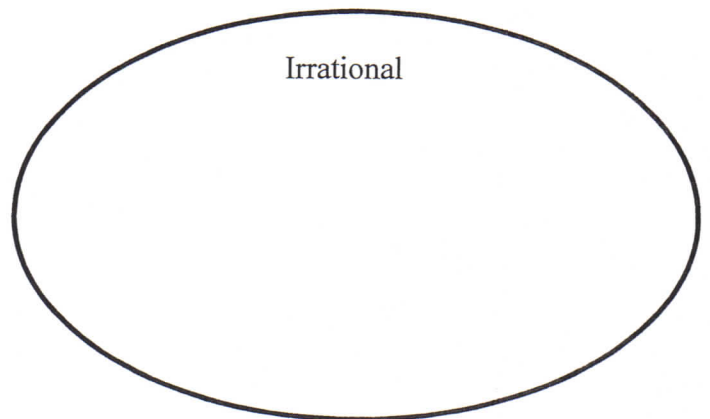
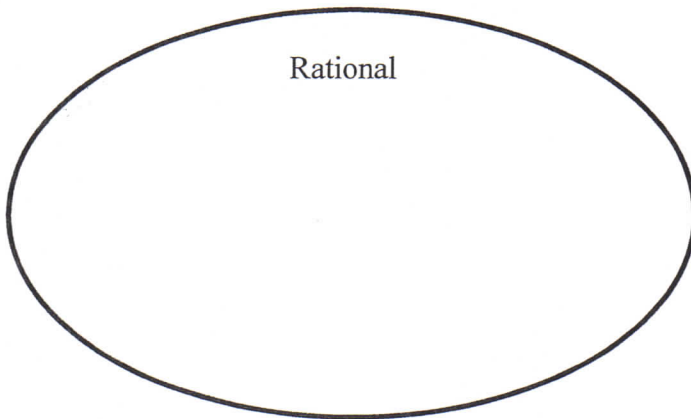


Independent Practice

1. Sort the numbers into 2 groups, rational or irrational. Write the numbers in the appropriate bubble.

0.8 $\sqrt{64}$ 0 $\sqrt{32}$ -19 $-\sqrt{100}$ 2.343443444...

$\frac{3}{7}$ $\sqrt{75}$ $6\frac{2}{7}$ $12.\overline{67}$ $\sqrt{121}$ $\frac{12}{5}$ π



2. Graph and label each number on the number line below. You may label the number with the letter.

A 0.75

B $\sqrt{3}$

C $\sqrt{9}$

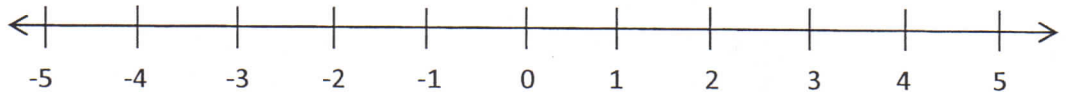
D $-2\frac{1}{2}$

E $-\frac{15}{10}$

F $2.\overline{6}$

G $-\sqrt{2}$

H π

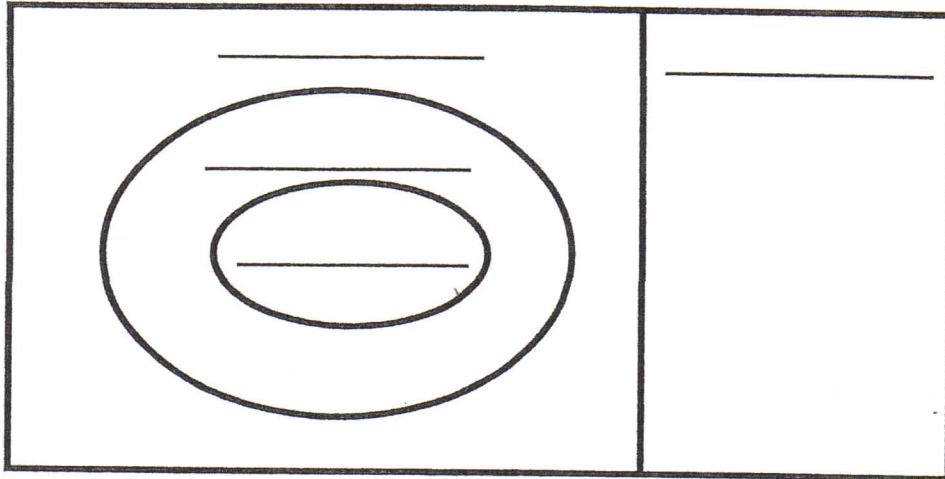




Name: _____

I can ...

Fill out the Venn diagram below with the following words: Real Numbers, Irrational Numbers, Rational Numbers, Integers, Whole Numbers



Place two numbers in each category.



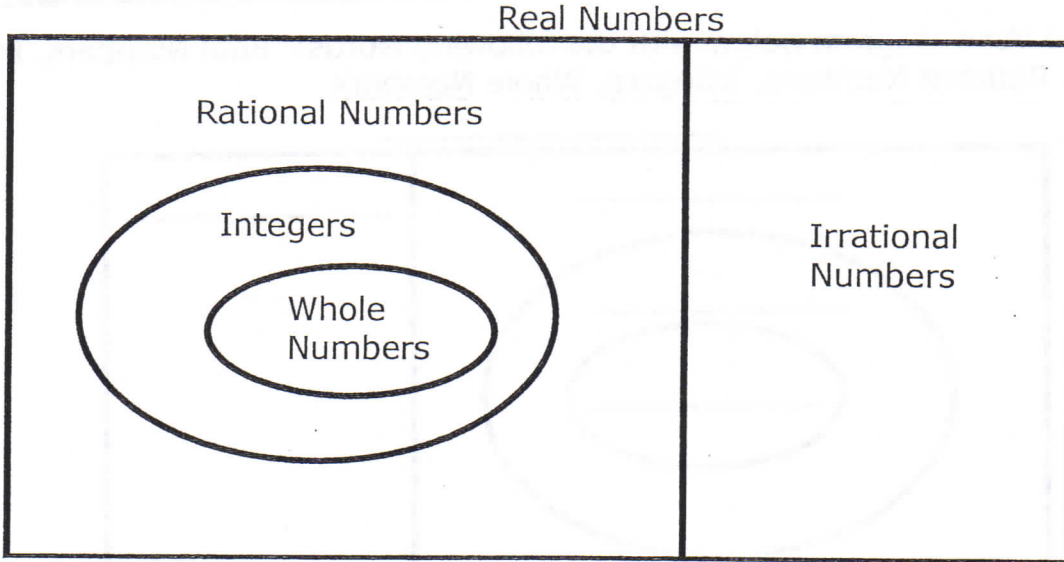
Thinking Mathematically

How are rational and irrational numbers different?

Why are integers also rational numbers?

If a number is a whole number, what other categories must it also be placed in? And why?

Are all negative numbers integers? Why or why not?



1 Where would you place π on the Venn diagram?

- A Rational numbers
- B Irrational numbers
- C Integers
- D Whole numbers

You must show your work.

2 Where would you place $\sqrt{3}$?

- A Rational numbers
- B Irrational numbers
- C Integers
- D Whole numbers

3 Where would you place $\frac{7}{2}$?

- A Rational numbers
- B Irrational numbers
- C Integers
- D Whole numbers

4 Where would you place -2?

- A Rational numbers only
- B Irrational numbers only
- C Integers and rational numbers
- D Whole numbers, integers, and rational numbers

The Number System

Identify the sets to which each of the following numbers belongs by marking an "X" in the appropriate boxes.

	Number	<u>N</u> atural Numbers	<u>W</u> hole Numbers	<u>I</u> ntegers	<u>R</u> ational Numbers	<u>I</u> rrational Numbers	<u>R</u> eal Numbers
1.	$-\sqrt{17}$						
2.	-2						
3.	$-\frac{9}{37}$						
4.	0						
5.	-6.06						
6.	$4.5\overline{6}$						
7.	3.050050005...						
8.	18						
9.	$\frac{-43}{0}$						
10.	π						
11.	$\overline{.634}$						
12.	$\sqrt{225}$						
13.	.634						
14.	$\sqrt{\frac{4}{49}}$						
15.	$-\sqrt{64}$						

	Number	<u>N</u> atural Numbers	<u>W</u> hole Numbers	<u>I</u> ntegers	<u>R</u> ational Numbers	<u>I</u> rrational Numbers	<u>R</u> eal Numbers
16.	$\sqrt{13}$						
17.	-5						
18.	$\frac{2}{3}$						
19.	-0.083						
20.	27						
21.	$2.\overline{647}$						
22.	$3.\overline{0505}$						
23.	-198						
24.	$-\frac{1}{2}$						
25.	10						