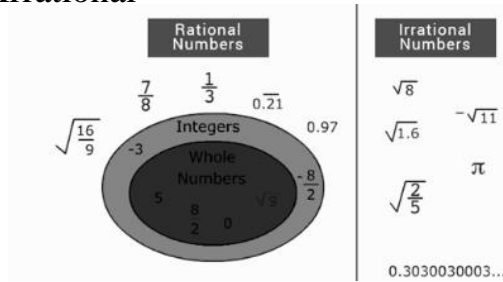


Properties of Real Numbers

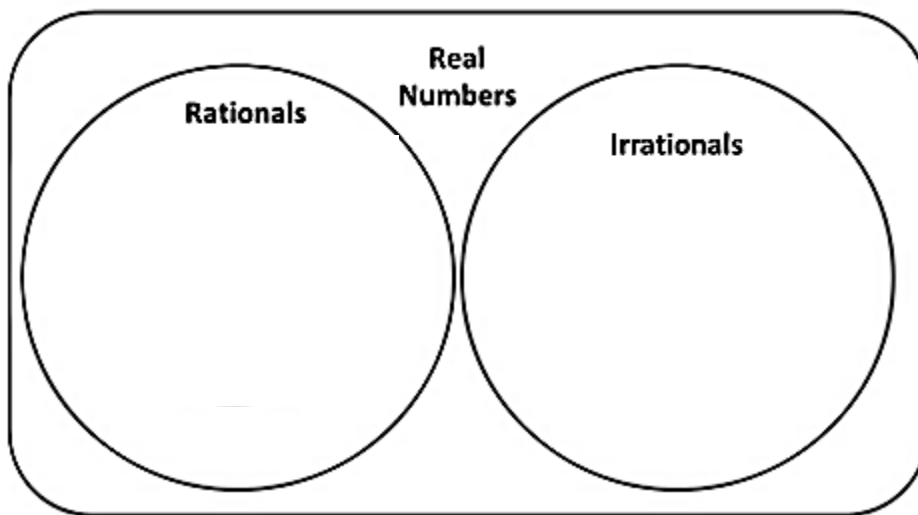
Rational vs. Irrational

Rational vs. Irrational Numbers

- **Irrational Numbers** – A number that when written as a decimal does not end and never repeats.
 - An irrational number can never be written as a fraction.
- **Rational Number** – A number that when written as a decimal either stops or repeats in a pattern.
 - All rational numbers can be written as fractions.



1. Place the numbers in the table into their correct circle. **Rational or Irrational.**



$\frac{5}{6}$	$\sqrt{20}$	π
$\sqrt{196}$	5^2	-5.25
$3.3333\dots$	0	$\sqrt{2}$
$0.87621964\dots$	$\sqrt{49}$	-3π
$2\frac{3}{4}$	$-\frac{2}{3}$	-27
$0.74343\dots$	$\frac{24}{4}$	13^2
$3.14159\dots$	$\sqrt{250}$	$6.\bar{5}$
$\sqrt{\pi}$	2^3	$\frac{10}{3}$

2. Order the following numbers from **greatest to least**. Use boxes to place your answers.

π $\sqrt{2}$ $4\frac{2}{3}$ $-\bar{3}$ $-\sqrt{75}$ $\frac{1}{2}$ $.25$

--	--	--	--	--	--	--	--

3. Order the following numbers from **least to greatest**. Use boxes to place your answers.

$-\pi$ $\sqrt{7}$ $-\frac{2}{3}$ 0 $-\sqrt{15}$ 0.5 $\bar{.25}$

--	--	--	--	--	--	--	--

4. Draw an arrow and show where each number would approximately fall on the number line.

π $\sqrt{2}$ $4\frac{2}{3}$ $-\bar{3}$ $-\sqrt{75}$ $\frac{1}{2}$ $.25$ $\sqrt{121}$

