

Goal: I will be able to Compare and order rational and irrational numbers

Tool Bag

Formulas, equations, vocabulary, etc.

Here's How... Notes & Examples

$\sqrt{38}$
 $36 < 38 < 49$
 $\sqrt{36} < \sqrt{38} < \sqrt{49}$
 $6 < \sqrt{38} < 7$

$\sqrt{38} \approx 6.2$

$-\sqrt{118}$
 $100 < 118 < 121$
 $\sqrt{100} < \sqrt{118} < \sqrt{121}$
 $10 < \sqrt{118} < 11$
 $-10 < -\sqrt{118} < -11$

$4 < 5$
 $-4 < -5$

$-\sqrt{118} \approx -10.8$

Compare Numbers

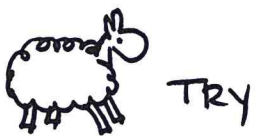
$7 > \sqrt{7}$ $\sqrt{7} < 3.5$ $-8 < -\sqrt{49}$
 $\approx 2.7 < 3.5$ $-8 < -7$

To compare numbers

- 1) Estimate their values
- 2) Then compare

Ordering Numbers

- 1) Put them in order after you estimate



a) Least to greatest

$\frac{25}{7}, \sqrt{3}, 5.85, 4^2, \pi$

$\sqrt{3}, \pi, \frac{25}{7}, 5.85, 4^2$

$\frac{25}{7} = 3.57$
 $\pi \approx 3.14$
 $4^2 = 16$

b) Put on a number line

