Name: _____

Date: _____

Learning Goal 4.1 Identify and order irrational numbers.

Take a moment. What distinguishes these sets of numbers? What does each grouping have in common with each other? How are they different from the other group? Add **three** more values to each group

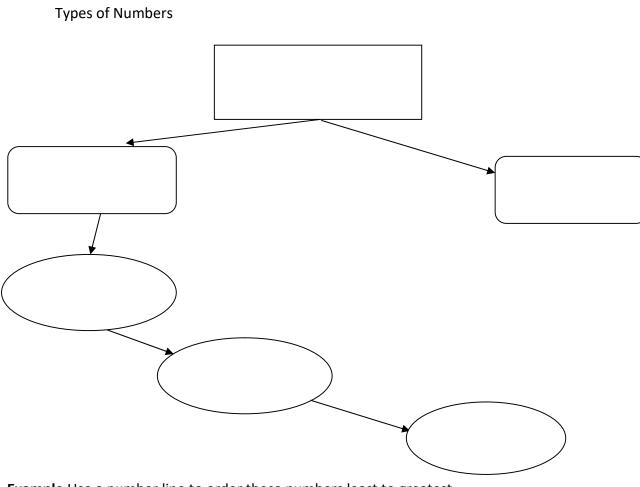
0.5 $\sqrt{100}$	⁵ √-32 √0.25	∛8 5 6	$\sqrt{\frac{9}{64}}$ 0.8^2	$\sqrt{2}$ $\sqrt{0.24}$	$\sqrt[3]{9}$ $\sqrt{\frac{1}{3}}$	π 4 √12
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Example Tell whether each number is rational or irrational. Explain.

1. $\sqrt{\frac{49}{16}}$ 2. $\sqrt[3]{30}$ 3. 1.21

Again! How are these groups different from one another? Add **three values** to each.

10 ²	√-1	∜128	$(-8)^3$	0.8 ²	0.5	$\frac{1}{2}$
$-\sqrt{100}$	3√8		$\sqrt{\frac{64}{4}}$	$\sqrt{0.25}$	$\sqrt{\frac{1}{9}}$	$\sqrt[3]{\frac{64}{27}}$



Example Use a number line to order these numbers least to greatest.

 $\sqrt{2}, \sqrt[3]{-2}, \sqrt[3]{6}, \sqrt{11}, \sqrt[4]{30}$