**Roots and Powers** 

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

	=-2 Pational		Irrational.			
0.5	∜-32	$\sqrt[3]{8}$	$\sqrt{\frac{9}{64} - \frac{3}{8}}$	$\sqrt{2}$	∛9	π
$\sqrt{100}  \sqrt{0.25}  \frac{5}{6}  0.8^2$ $= 5  -2 \times -2$			$\sqrt{0.24}$	$\sqrt{\frac{1}{3}}$	∜12	

**Example** Tell whether each number is rational or irrational. Explain.

1. 
$$\sqrt{\frac{49}{16}}$$
 rational 2.  $\sqrt[3]{30}$  invational 3.  $1.21 = \frac{121}{100} = \frac{21}{100}$   
=  $\frac{7}{4}$  3 10  
 $\times$  25

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





