Name: _____ Date: _____

Learning Goal 4.2	Express an entire radical as a simplified mixed radical and vice versa.

Multiple Strategies exist for evaluating radicals.

$\sqrt[3]{8 \cdot 27} =$	
Direct (with a calculator)	Indirect (without a calculator)

$\sqrt{0.0169} =$	
Direct (with a calculator)	Indirect (without a calculator)

Guess which one we're more interested in … _____!!!

Consider

$\sqrt{24} =$		
Direct (with a calculator)	Indirect (without a calculator)	

This process is going from an _____ radical to a _____ radical.

Again! Write the radical in simplest form.

1. $\sqrt{63}$
2. $\sqrt[3]{108}$
3. $\sqrt[4]{128}$
4. $\sqrt{30}$
5. $\sqrt[3]{32}$
6. $\sqrt[4]{48}$

Backwards! Write each mixed radical as an entire radical.

1. $7\sqrt{3}$
2. $2\sqrt[3]{4}$
3. $2\sqrt[5]{3}$
4. $3\sqrt[3]{5}$
5. $8\sqrt{2}$
6. $3\sqrt[3]{4}$