## 2,3,5,7,11,13

Worked Examples - Simplify Radical Expressions (IXL Algebra 1 EE.1)

1. Simplify 
$$\sqrt{125}$$

5		125	
5		25	
5		5	
		1	

## 2. Simplify $10\sqrt{}$

$$10\sqrt{2^2} \cdot \sqrt{3}$$

$$10\cdot 2\cdot \sqrt{3} \rightarrow \boxed{20\sqrt{3}}$$

3. Simplify 
$$5\sqrt{45}$$

$$5\sqrt{5\cdot 3\cdot 3}$$
 $5\sqrt{3\cdot 3\cdot 5}$ 
 $5\sqrt{3^2\cdot 5}$ 
 $5\cdot \sqrt{3^2\cdot 5}$ 
 $5\cdot \sqrt{3^2\cdot 15}$ 
4. Simplify  $10\sqrt{63}$ 
 $10\sqrt{3\cdot 3\cdot 7}$ 

4. Simplify 
$$10\sqrt{63}$$

5. Simplify 
$$2\sqrt{308}$$

2	•	2	•		V	1	0	7
		4	-	V	7	7	7	

11.07 . 1.01