Math 1 **10.2 Simplifying Radicals** Unit 6

Label the following parts of a radical expression:

**Example 1:** Simplify the following radicals.

**Example 2:** Simplify the following radical. Decimals are not acceptable.

**Step 1:** Factor the number

**Step 2:** Rewrite under the radical

**Step 3:** Circle like terms (circle the same amount of like terms as the number of the index)

**Step 4:** Simplify

**You Try!** Simplify the following. Decimals are not acceptable answers.



**Example 3:** Simplify

**Example 4:** Simplify

**You Try!** Simplify the following. Decimals are not acceptable answers.

**Multiplying Radicals:** To multiply radicals, multiply the coefficients, then the radicands and reduce!

**Example 5:** Multiply the following.

1. 
2. 

**You Try!** What is the simplified form of each of the following?

1. 
2. 
3. 

**Rationalizing the Denominator:** To rationalize, you must get rid of any radicals found in the denominator!

1. 
2. 

**You Try!** What is the simplified form of each of the following?

1. 
2. 