Warm up:

- 1. Between which two consecutive integers is  $\sqrt{140}$ ?
- 2. Compare the following two numbers using <, >, or =.

 $4^2 \qquad \sqrt{258}$ 

3. Order the following numbers from least to greatest.

 $\sqrt{81}$ , 8.7,  $\sqrt{97}$ , 9.2

**Rules for Simplifying Roots:** 

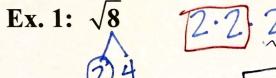
1 Factor Tree

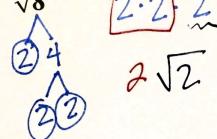
- 2 list out the factors, Box the pairs
- 3 ome comes out of the pair, everything else stays in
- 4 Multiply outside ?, Multiply inside

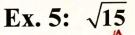
518 2:3.3 33 3√2

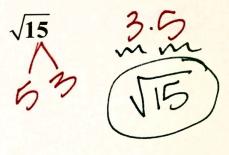
3 52

## Simplify the expression.

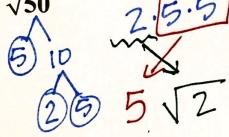




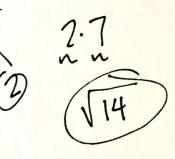




Ex. 2:  $\sqrt{50}$ 



**Ex. 6:**  $\sqrt{14}$ 



Ex. 3:  $\sqrt{16}$ 

