Algebra 2 Name: _____

Simplifying Square Roots

Learning Target:

What are some perfect squares (between 1 and 100)?

What happens when a square root doesn't have a perfect answer?

EXAMPLES: $\sqrt{\mathbf{20}}$ $\sqrt{\mathbf{50}}$ $\sqrt{\mathbf{63}}$

Directions: For each of the problems below there is NOT a perfect square answer. Simplify the square root using factors to give me the best answer (do not give me the decimal approximation).

1.) $\sqrt{72}$ 2.) $\sqrt{45}$ 3.) $\sqrt{90}$ 4.) $\sqrt{75}$

5.) $\sqrt{200}$ 6.) $\sqrt{98}$ 7.) $\sqrt{108}$ 8.) $\sqrt{40}$

9.) $\frac{\sqrt{18}}{2}$ 10.) $\frac{\sqrt{48}}{3}$ 11.) $\frac{\sqrt{80}}{5}$ 12.) $\frac{\sqrt{20}}{2}$