

Algebra I Worksheet #3 Unit 13 Selected Homework Solutions

Evaluate each of the following square roots. (No calculators please.)

$$2. \quad \sqrt{900} = \underline{\mathbf{30}}$$

$$4. \quad \sqrt{\frac{25}{64}} = \frac{\mathbf{5}}{\mathbf{8}}$$

$$5. \quad \sqrt{0.49} = \underline{\mathbf{0.7}}$$

$$\frac{\sqrt{25}}{\sqrt{64}}$$

Express each of the following square roots using standard radical form.

$$10. \quad \frac{\sqrt{162}}{\sqrt{81}\sqrt{2}} = \underline{\mathbf{9\sqrt{2}}}$$

$$13. \quad \sqrt{\frac{7}{12}} = \boxed{\frac{\sqrt{21}}{6}}$$

$$\frac{\sqrt{7}}{\sqrt{12}} \frac{\sqrt{3}}{\sqrt{3}} = \frac{\sqrt{21}}{\sqrt{36}}$$

$$16. \quad \sqrt{0.9} = \boxed{\frac{3\sqrt{10}}{10}}$$

$$0.9 = \frac{9}{10} \quad \sqrt{\frac{9}{10}} = \frac{\sqrt{9}}{\sqrt{10}} \frac{\sqrt{10}}{\sqrt{10}} = \frac{3\sqrt{10}}{\sqrt{100}}$$

$$17. \quad \sqrt{0.44} = \boxed{\frac{\sqrt{11}}{5}}$$

$$0.44 = \frac{44}{100} = \frac{11}{25} \quad \sqrt{\frac{11}{25}} = \frac{\sqrt{11}}{\sqrt{25}}$$