

Algebra I Worksheet #2 Unit 13 Selected Homework Solutions

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

$$3. \quad \sqrt{\frac{4}{25}} = \frac{2}{5}$$
$$\frac{\sqrt{4}}{\sqrt{25}}$$

$$5. \quad \sqrt{0.09} = \underline{0.3}$$

For the following square roots, (a) express them using standard radical form and (b) give their rational approximation rounded to the nearest hundredth. (No calculators please.)

$$9. \quad \sqrt{45} = \underline{3\sqrt{5}}$$
$$\sqrt{9} \sqrt{5}$$

$$12. \quad \sqrt{\frac{2}{9}} = \boxed{\frac{\sqrt{2}}{3}}$$
$$\frac{\sqrt{2}}{\sqrt{9}}$$

$$13. \quad \sqrt{\frac{3}{8}} = \boxed{\frac{\sqrt{6}}{4}}$$
$$\frac{\sqrt{3}}{\sqrt{8}} \frac{\sqrt{2}}{\sqrt{2}} = \frac{\sqrt{6}}{\sqrt{16}}$$

$$17. \quad \sqrt{1.8} = \boxed{\frac{3\sqrt{5}}{5}}$$

$$1.8 = \frac{18}{10} = \frac{9}{5} \quad \sqrt{\frac{9}{5}} = \frac{\sqrt{9}}{\sqrt{5}} \frac{\sqrt{5}}{\sqrt{5}} = \frac{3\sqrt{5}}{\sqrt{25}}$$