

Division of Radicals Answer Key

Lions, Square Roots, and Fractions, Oh My

Simplify. The answer should not have radicals in the denominator.

$$1. \frac{\sqrt{\frac{3}{15}}}{\frac{\sqrt{5}}{5}}$$

$$6. \frac{\frac{7}{\sqrt{7}}}{\sqrt{7}}$$

$$2. \frac{\sqrt{\frac{60}{45}}}{\frac{\sqrt{12}}{3}}$$

$$7. \frac{\frac{\sqrt{x^2y}}{\sqrt{xy^2}}}{\frac{\sqrt{xy}}{y}}$$

$$3. \frac{\frac{\sqrt{10}}{\sqrt{2}}}{\sqrt{5}}$$

$$8. \frac{\frac{\sqrt{324}}{\sqrt{392}}}{\frac{9\sqrt{2}}{14}}$$

$$4. \frac{\frac{\sqrt{x^2+y^2}}{\sqrt{x+y}}}{\frac{\sqrt{x^3+x^2y+xy^2+y^3}}{x+y}}$$

$$9. \frac{\frac{\sqrt{y^2+5y+6}}{\sqrt{y^2+3y+2}}}{\frac{\sqrt{y^2+4y+3}}{y+1}}$$

$$5. \frac{\frac{\sqrt{(5)^2-(3)^2}}{\sqrt{5}}}{\frac{4\sqrt{5}}{5}}$$

$$10. \frac{\frac{\sqrt{a^2-b^2}}{\sqrt{a-b}}}{a+b}$$

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