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Rationalizing a denominator: Square root of a fraction

$$\sqrt{\frac{3}{21}} = \frac{\sqrt{3}}{\sqrt{21}} = \frac{\sqrt{3}}{\sqrt{3} \cdot \sqrt{7}} = \frac{\sqrt{3}}{\sqrt{3}} \cdot \frac{1}{\sqrt{7}} = \frac{1}{\sqrt{7}} = \frac{\sqrt{7}}{7}$$

$\sqrt{63} = 3\sqrt{7}$

$\sqrt{3 \cdot 21} = \sqrt{3 \cdot 3 \cdot 7} = 3\sqrt{7}$

$$\sqrt{\frac{10 \div 2}{14 \div 2}} = \sqrt{\frac{5}{7}} = \frac{\sqrt{5}}{\sqrt{7}} = \frac{\sqrt{5}}{\sqrt{7}} \cdot \frac{\sqrt{7}}{\sqrt{7}} = \frac{\sqrt{35}}{7}$$

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