

8, 2, 6, 4, 9

$$2. \sqrt{125} = \sqrt{5^2 \cdot 5} = 5\sqrt{5}$$

$\begin{array}{c} \wedge \\ 5 \quad 25 \\ \textcircled{5 \quad 5} \end{array}$

$$4. \sqrt{363} = \sqrt{11^2 \cdot 3} = 11\sqrt{3}$$

$\begin{array}{c} \wedge \\ \textcircled{3} \quad 121 \\ \textcircled{11 \quad 11} \end{array}$

$$6. \sqrt{324} = \sqrt{2^2 \cdot 9^2} = 2 \cdot 9 = 18$$

$\begin{array}{c} \wedge \\ 4 \quad 81 \\ \textcircled{2 \quad 2} \quad \textcircled{9 \quad 9} \end{array}$

$$8. \sqrt{\frac{50}{49}} = \frac{\sqrt{50}}{7} = \frac{\sqrt{5^2 \cdot 2}}{7} = \frac{5\sqrt{2}}{7}$$

$\begin{array}{c} 50 \\ \wedge \\ 2 \quad 25 \\ \textcircled{5 \quad 5} \end{array}$

$$9. \sqrt{\frac{4}{3}} = \frac{2}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{2\sqrt{3}}{3}$$

3/4/10

3.  $\sqrt{162}$

$$\sqrt{10} \cdot \sqrt{15} = \sqrt{10 \cdot 15}$$

5 2 5 3  
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$$5\sqrt{2 \cdot 3} = 5\sqrt{6}$$

DO:  $\sqrt{24}$

$$\sqrt{2} \cdot \sqrt{6}$$

$$\frac{6}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{6\sqrt{3}}{\sqrt{9}} = \frac{6\sqrt{3}}{3}$$

$$\textcircled{2\sqrt{3}}$$

$$\sqrt{\frac{2}{3}}$$