

4, 6, 8, 9, 2

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

$\begin{array}{c} \wedge \\ 5 \quad 25 \\ \textcircled{55} \end{array}$

$$4. \sqrt{363} = 11\sqrt{3}$$

$\begin{array}{c} \wedge \\ \boxed{3} \quad 121 \\ \textcircled{11 \quad 11} \end{array} = \sqrt{11^2 \cdot 3}$

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

$\begin{array}{c} \wedge \quad \wedge \\ 4 \quad 81 \\ \textcircled{22} \quad \textcircled{99} \end{array}$

$$\sqrt{324} = \sqrt{6^2 \cdot 3^2} = \sqrt{6^2} \cdot \sqrt{3^2}$$

$\begin{array}{c} \wedge \quad \wedge \\ \textcircled{6} \quad 54 \\ \textcircled{6} \quad 9 \\ \textcircled{33} \end{array} \quad \begin{array}{c} 6 \cdot 3 \\ \textcircled{18} \end{array}$

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

$$\sqrt{50} = 5\sqrt{2}$$

$\begin{array}{c} \wedge \\ 5 \quad 10 \\ \textcircled{5} \quad 2 \end{array}$

$$\sqrt{125} = \sqrt{5^3}$$

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

3/4/10

3.  $\sqrt{162}$

$$\sqrt{15} \cdot \sqrt{\frac{5}{3}} = \sqrt{\frac{15 \cdot 5}{3}} = \sqrt{\frac{75}{3}} = \sqrt{25} = 5$$

$$\frac{\sqrt{56}}{\sqrt{7}} = \frac{2\sqrt{2 \cdot 7}}{\sqrt{7}}$$

$$\begin{array}{r} 56 \\ \wedge \\ 28 \\ \wedge \\ 14 \\ \wedge \\ 2 \cdot 7 \end{array}$$

$$\frac{\sqrt{56}}{\sqrt{7}} = \frac{\sqrt{2^2 \cdot 2 \cdot 7}}{\sqrt{7}} = \frac{2\sqrt{2 \cdot 7}}{\sqrt{7}} = 2\sqrt{2}$$

$$\begin{array}{r} \sqrt{8} \\ \wedge \\ 4 \cdot 2 \\ \wedge \\ 2 \cdot 2 \end{array} = 2\sqrt{2}$$