

Radical Review

Simplify

$$1) \sqrt{75} = 5\sqrt{3}$$

$$3) \sqrt{36} = 2 \cdot 3 = 6$$

$$5) \sqrt{80} = 2 \cdot 2 \sqrt{5} = 4\sqrt{5}$$

$$7) \sqrt{8} = 2\sqrt{2}$$

$$9) \sqrt{32} = 2 \cdot 2\sqrt{2} = 4\sqrt{2}$$

$$11) \sqrt{8} = 2\sqrt{2}$$

$$13) \sqrt{125} = 5\sqrt{5}$$

$$15) \sqrt{175} = 5\sqrt{7}$$

$$17) \sqrt{45} = 3\sqrt{5}$$

$$19) \sqrt{20} = 2\sqrt{5}$$

$$21) \sqrt{7}\sqrt{7} = 7$$

$$2) \sqrt{16} = 2 \cdot 2 = 4$$

$$4) \sqrt{64} = 2 \cdot 2 \cdot 2 = 8$$

$$6) \sqrt{30} = \sqrt{30}$$

$$8) \sqrt{18} = 3\sqrt{2}$$

$$10) \sqrt{12} = 2\sqrt{3}$$

$$12) \sqrt{108} = 2 \cdot 3\sqrt{3} = 6\sqrt{3}$$

$$14) \sqrt{50} = 2\sqrt{5}$$

$$16) \sqrt{28} = 2\sqrt{7}$$

$$18) \sqrt{72} = 2 \cdot 3\sqrt{2} = 6\sqrt{2}$$

$$20) \sqrt{150} = 5\sqrt{2 \cdot 3} = 5\sqrt{6}$$

$$22) 4\sqrt{6}\sqrt{6} = 4 \cdot 6 = 24$$

$$23) \frac{\sqrt{8} \cdot \sqrt{7}}{\sqrt{7} \cdot \sqrt{7}} = \frac{\sqrt{56}}{7}$$

$$24) \frac{7}{\sqrt{7}} \frac{\sqrt{7}}{\sqrt{7}} = \frac{7\sqrt{7}}{7} = \sqrt{7}$$

$$25) \frac{1}{\sqrt{3}} \frac{\sqrt{3}}{3} = \frac{\sqrt{3}}{3}$$

$$26) \frac{\sqrt{7}}{\sqrt{5}} \frac{\sqrt{5}}{\sqrt{5}} = \frac{\sqrt{35}}{5}$$

$$27) \frac{\sqrt{3}}{6\sqrt{7}} \frac{\sqrt{7}}{\sqrt{7}} = \frac{\sqrt{21}}{6 \cdot 7} = \frac{\sqrt{21}}{42}$$

$$28) \frac{\sqrt{5}}{\sqrt{3}} \frac{\sqrt{3}}{\sqrt{3}} = \frac{\sqrt{15}}{3}$$

$$29) \frac{\sqrt{5}}{3\sqrt{2}} \frac{\sqrt{2}}{\sqrt{2}} = \frac{\sqrt{10}}{3 \cdot 2} = \frac{\sqrt{10}}{6}$$

$$30) \frac{\sqrt{8}}{2\sqrt{3}} \frac{\sqrt{3}}{\sqrt{3}} = \frac{\sqrt{24}}{2 \cdot 3} = \frac{2\sqrt{6}}{6} = \frac{\sqrt{6}}{3}$$

$$\begin{array}{r} 24 \\ 2 \swarrow \searrow \\ 12 \quad 2 \\ 2 \swarrow \searrow \\ 6 \quad 2 \\ 2 \swarrow \searrow \\ 2 \quad 3 \end{array}$$