

Simplify.

$$1) \frac{\sqrt{12}}{\sqrt{25}} = \boxed{\frac{2\sqrt{3}}{5}} \quad \begin{matrix} 12 \\ 4 \cdot 3 \\ \textcircled{2 \cdot 2} \end{matrix}$$

$$2) \frac{\sqrt{10}}{\sqrt{9}} = \boxed{\frac{\sqrt{10}}{3}} \quad \begin{matrix} 10 \\ 2 \cdot 5 \end{matrix}$$

$$3) \frac{\sqrt{4}}{\sqrt{64}} = \frac{2}{8} = \boxed{\frac{1}{4}}$$

$$4) \frac{\sqrt{2}}{\sqrt{9}} = \boxed{\frac{\sqrt{2}}{3}}$$

$$5) \frac{\sqrt{10}}{\sqrt{4}} = \boxed{\frac{\sqrt{10}}{2}} \quad \begin{matrix} 10 \\ 2 \cdot 5 \end{matrix}$$

$$6) \frac{\sqrt{8}}{\sqrt{4}} = \frac{\cancel{2}\sqrt{2}}{\cancel{2}} = \boxed{\sqrt{2}} \quad \begin{matrix} 8 \\ 4 \cdot 2 \\ \textcircled{2 \cdot 2} \end{matrix}$$

$$7) \frac{\sqrt{3}}{\sqrt{9}} = \boxed{\frac{\sqrt{3}}{3}}$$

$$8) \frac{\sqrt{25}}{\sqrt{4}} = \boxed{\frac{5}{2}}$$

$$9) \frac{\sqrt{8}}{\sqrt{100}} = \frac{\cancel{2}\sqrt{2}}{\cancel{10}} = \boxed{\frac{1\sqrt{2}}{5}} \quad \begin{matrix} 8 \\ 2 \cdot 4 \\ \textcircled{2 \cdot 2} \end{matrix}$$

$$10) \frac{\sqrt{10}}{\sqrt{16}} = \boxed{\frac{\sqrt{10}}{4}}$$