

Squaring Radicals

WS #3

Find the values of the following.

$$\left(\frac{\sqrt{4}}{5}\right)^2 =$$

$$\left(\frac{\sqrt{4}}{5}\right)^2 = \left[\begin{array}{c} 2\sqrt{3} \\ \sqrt{7} \end{array}\right]^2 = \left[\begin{array}{c} 2\sqrt{3} \\ 5 \end{array}\right]^2$$

$$\left(\frac{2\sqrt{3}}{5}\right)^2 =$$

$$\left(2\sqrt{\frac{1}{9}}\right)^2 = \boxed{}$$

$$\left(2\sqrt{\frac{1}{9}}\right)^2 = \left[\begin{array}{c} \left(\frac{4}{11}\sqrt{2}\right)^2 \end{array}\right] = \left[\begin{array}{c} \left(\frac{1}{2}\sqrt{\frac{1}{2}}\right)^2 \end{array}\right] = \left[\begin{array}{c} \left(\frac{1}{2}\sqrt{\frac{1}{2}}\right)^2 \end{array}\right]$$

$$\left(\frac{1}{2}\sqrt{\frac{1}{2}}\right)^2 = \boxed{}$$

$$4\left(\frac{2}{\sqrt{23}}\right)^2 = \boxed{ } \qquad \frac{2}{3}\left(\sqrt{\frac{2}{7}}\right)^2 = \boxed{ } \qquad \left(\frac{1}{2\sqrt{11}}\right)^2 = \boxed{ }$$

$$\frac{2}{3}\left(\sqrt{\frac{2}{7}}\right)^2 = \boxed{}$$

$$\left(\frac{1}{2\sqrt{11}}\right)^2 = \boxed{}$$

$$\left(\frac{2}{3\sqrt{11}}\right)^2 = \left[\begin{array}{c} \left(\frac{\sqrt{3}}{2\sqrt{8}}\right)^2 \\ \end{array}\right] = \left[\begin{array}{c} \left(\frac{5\sqrt{3}}{13}\right)^2 \\ \end{array}\right] = \left[\begin{array}{c} \left(\frac{5\sqrt{3}}{13}\right)^2 \\ \end{array}\right]$$

$$\left(\frac{\sqrt{3}}{2\sqrt{8}}\right)^2 = \boxed{}$$

$$\left(\frac{5\sqrt{3}}{13}\right)^2 = \boxed{}$$

$$\left(\frac{3\sqrt{3}}{7\sqrt{7}}\right)^2 = \boxed{}$$

$$\left(\frac{\sqrt{7}}{2\sqrt{2}}\right)^2 = \boxed{}$$

$$\left(\frac{3\sqrt{3}}{7\sqrt{7}}\right)^2 = \boxed{\boxed{}} \qquad \left(\frac{\sqrt{7}}{2\sqrt{2}}\right)^2 = \boxed{\boxed{}} \qquad \left(\frac{\sqrt{5}}{2}}{3}\right)^2 = \boxed{\boxed{}}$$