## **Multiply the following radicals:** © Remember to simplify

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

$$\sqrt[3]{5} \cdot \sqrt[3]{5} =$$

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

$$5\sqrt[3]{x^2} \cdot \sqrt[3]{x^6}$$

## **Distributive Property:**

$$2(\sqrt{3}+\sqrt{5})=$$

$$3(2\sqrt{7} + 5\sqrt{6}) =$$

$$\sqrt{3} \left( \sqrt{7} + 5\sqrt{6} \right) =$$

$$4\sqrt{5}(2\sqrt{3}-\sqrt{5}) =$$

$$4\sqrt{3}(3\sqrt{6}-2\sqrt{5}) =$$

$$(\sqrt{3} + 5)(\sqrt{3} - 5) =$$

$$(\sqrt{6} + \sqrt{2})(\sqrt{6} - \sqrt{2}) =$$

$$(\sqrt{3}+2)(4\sqrt{6}-7\sqrt{5})=$$

$$\sqrt{6} \cdot \sqrt[3]{7} =$$

$$\sqrt{6} \cdot \sqrt[3]{6} =$$

Divide the radicals:

$$\sqrt{\frac{36}{144}} =$$

$$\sqrt{\frac{3}{12}} =$$

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

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

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

$$\frac{8}{\sqrt{2}} =$$

$$\frac{\sqrt{40}}{\sqrt{75}} =$$

$$\sqrt[3]{\frac{x^4}{x}} =$$

$$\frac{\sqrt{9m}}{18} =$$

$$\frac{\sqrt{x^2}}{3\sqrt{5}} =$$

$$\frac{\sqrt[3]{5}}{\sqrt[3]{9}} =$$