

Radicals Review

perfect square numbers

1, 4, 9, 16, 25, 36, 49, 64, 81, 100, ...

you are trying to find these numbers

$$\sqrt{48}$$

$$x = \sqrt{48}$$

$$\sqrt{16 \cdot 3}$$

$$\sqrt{16} \cdot \sqrt{3}$$

$$4\sqrt{3}$$

$$\sqrt{75}$$

$$\sqrt{25 \cdot 3}$$

$$5\sqrt{3}$$

$$3\sqrt{50}$$

$$3\sqrt{25 \cdot 2}$$

$$15\sqrt{2}$$

$$\sqrt{24}\sqrt{6}$$

$$\sqrt{24 \cdot 6} = \sqrt{144}$$

$$= 12$$

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

$$\frac{3\sqrt{2}}{\sqrt{4}}$$

$$\frac{3\sqrt{2}}{2}$$

$$\frac{5\sqrt{2} \cdot \sqrt{3}}{\sqrt{3} \cdot \sqrt{3}}$$

$$\frac{5\sqrt{6}}{\sqrt{9}} = \frac{5\sqrt{6}}{3}$$

$$3^2 + 6^2 = x^2$$

$$9 + 36 = x^2$$

$$\sqrt{45} = \sqrt{x^2}$$

$$x = \sqrt{45}$$

$$x = \sqrt{9 \cdot 5}$$

$$x = 3\sqrt{5}$$