



$$\sqrt[2]{3^4} = 3^{\frac{4}{2}} = 3^{2}$$

$$\sqrt[2]{3^3} = 3^{\frac{3}{2}} = 3^{1.5}$$

$$\sqrt[3]{4 \cdot \sqrt[5]{2^1}}$$

$$\sqrt[n]{\quad} \leftrightarrow (\quad)^{\frac{1}{n}}$$

2' *simplifizier*

$$\left(2^2 \cdot 2^{\frac{1}{5}} \right)^{\frac{1}{3}}$$

$$= 2^{2 \cdot \frac{1}{3}} \cdot 2^{\frac{1}{5} \cdot \frac{1}{3}}$$

$$= 2^{\frac{2}{3}} \cdot 2^{\frac{1}{15}}$$

$$= \sqrt[15]{2^{11}}$$

$$= 2^{\frac{2}{3} + \frac{1}{15}} = 2^{\frac{10+1}{15}} = 2^{\frac{11}{15}}$$