

Exponents

1. Guess and check:

Find $2^{1/2}$ to 3 decimal places

Find $2^{1/3}$ to 2 decimal places

2.

$$2^2 \times 2^3 =$$

$$2^{3.5} \times 4^{1/4} =$$

$$2 \sqrt{8} =$$

$$2^7 / 2^4 =$$

$$64^{5/3} / 64^{2/3} =$$

$$2 / 16^{1/3} =$$

$$3^6 =$$

$$(2^{2.5} \times 3^{3.5})^2 =$$

$$2^{1/3} \times \sqrt[3]{(2^5)} =$$

$$256^{3/8} =$$

$$\sqrt[3]{128} =$$

$$2^{5/3} / 2^{2/3} =$$

$$4 / 2^{.5} =$$

$$\sqrt[3]{(7 \times \sqrt{7})} =$$

$$27^2 =$$

$$(12^2 + 5^2)^{1/2} =$$

3 Find $5^{1/2}$ $5^{1/4}$ $5^{1/8}$ $5^{1/6}$ $5^{1/32}$

4. Find $5^{.28125}$

5. Find $\log_5 2$