

The following flashcards review
negative exponents
and
rational exponents.

$$(2a)^0$$

$$(2a)^0 = 1$$

$$(5b)^{-1}$$

$$(5b)^{-1} = \frac{1}{5b}$$

$$\sqrt[4]{81}$$

$$\sqrt[4]{81} = 3$$

What number times itself 4 times will give you 81?

$$\frac{x^{-2}}{y^{-3}}$$

$$\frac{x^{-2}}{y^{-3}} = \frac{y^3}{x^2}$$

$$\frac{m^{-6}}{b^3}$$

$$\frac{m^{-6}}{b^3} = \frac{1}{b^3 m^6}$$

$$\sqrt[3]{8}$$

$$\sqrt[3]{8} = 2$$

What number times itself 3 times will give you 8?

$$\frac{4x^{-2}}{b^{-5}}$$

$$\frac{4x^{-2}}{b^{-5}} = \frac{4b^5}{x^2}$$

$$\sqrt[3]{125}$$

$$\sqrt[3]{125} = 5$$

What number times itself 3 times will give you 125?

$$\left(\frac{3}{31}\right)^{-1}$$

$$\left(\frac{3}{31}\right)^{-1} = \frac{31}{3}$$

$$25^{3/2}$$

$$25^{3/2} = \sqrt[2]{25^3}$$

$$\sqrt{25^3}$$

$$5^3 = 125$$

$$\sqrt[4]{16}$$

$$\sqrt[4]{16} = 2$$

What number times itself 4 times will give you 16?

$$(5f)^{-2}$$

$$(5f)^{-2}$$

$$5^{-2} f^{-2}$$

$$\frac{1}{25f^2}$$

$$\left(m^{-3}\right)^{-2}$$

$$\left(m^{-3}\right)^{-2} = m^6$$

$$\sqrt[3]{27}$$

$$\sqrt[3]{27} = 3$$

What number times itself 3 times is 27?

$$\left[\frac{2a^3}{4b} \cdot \frac{(3a)^2}{2a^{-5}} \right]^0$$

$$\left[\frac{2a^3}{4b} \cdot \frac{(3a)^2}{2a^{-5}} \right]^0 = 1$$