



A logarithm is just a special way to ask a specific question.



The QUESTION:

Exponential Form	Logarithmic Form

Calculate the following logarithms.

$$\log_4 64$$

$$\log_6 216$$

$$\log_4 16$$

$$\log_3 \frac{1}{243}$$

$$\log_5 125$$

$$\log_2 4$$

$$\log_{343} 7$$

$$\log_2 16$$

$$\log_{64} 4$$

$$\log_6 \frac{1}{216}$$

Convert between exponential and logarithmic form.

$$\left(\frac{1}{5}\right)^x = y$$

$$\log_u \frac{15}{16} = v$$

$$9^y = x$$

$$\log_{\frac{7}{4}} x = y$$

$$6^y = x$$

$$\log_u v = -16$$

$$b^a = 123$$

$$\log_v u = 4$$

$$u^{-14} = v$$

$$\log_2 v = u$$

$$8^b = a$$

$$\log_y x = -8$$