

Logarithm Worksheet

Warm-ups

Evaluate the following:

$$\log_2 8 = \underline{\hspace{2cm}}$$

$$\log 100 = \underline{\hspace{2cm}}$$

$$\log_{11} 121 = \underline{\hspace{2cm}}$$

$$\log_2 16 = \underline{\hspace{2cm}}$$

$$\log_4 2 = \underline{\hspace{2cm}}$$

$$\log_3 27 = \underline{\hspace{2cm}}$$

$$\log_9 81 = \underline{\hspace{2cm}}$$

$$\log_5 125 = \underline{\hspace{2cm}}$$

$$\log_3 1/9 = \underline{\hspace{2cm}}$$

$$\log_4 64 = \underline{\hspace{2cm}}$$

$$\log_8 64 = \underline{\hspace{2cm}}$$

$$\log_6 36 = \underline{\hspace{2cm}}$$

Log fun

Match the letter to the number to decode a fun math message!

T: $\log 10 = \underline{1}$

L: $\ln e - \log 10^5 = \underline{\hspace{2cm}}$

N: $\log_9 81 = \underline{\hspace{2cm}}$

D: $\ln e^8 + \log \frac{1}{10} = \underline{\hspace{2cm}}$

E: $\log_a a^{112} = \underline{\hspace{2cm}}$

I: $\log_8 2 = \underline{\hspace{2cm}}$

U: $\log_6 6^\pi = \underline{\hspace{2cm}}$

P: $\ln e^{25} = \underline{\hspace{2cm}}$

X: $\log_2 32 + \log_3 27 = \underline{\hspace{2cm}}$

S: $\log_4 \frac{1}{64} = \underline{\hspace{2cm}}$

A: $\log_9 3 = \underline{\hspace{2cm}}$

O: $\log_3 \frac{1}{9} = \underline{\hspace{2cm}}$

G: $\log_5 125 = \underline{\hspace{2cm}}$

-4 -2 3 -3 π 2 7 -2

112 8 25 -2 2 112 2 1 1/3 1/2 -4 -3