



## Logarithms - Meaning, Equation to Words as Values (Fractions)

1

What does the logarithm equation mean?

$$\log_{\frac{1}{9}} \frac{1}{81} = 2$$

A To result in  $\frac{1}{9}$ , you would raise  $\frac{1}{81}$  to the power of 2

B To result in  $\frac{1}{81}$ , you would raise  $\frac{1}{9}$  to the power of 2

2

What does the logarithm equation mean?

$$\log_{\frac{1}{7}} \frac{1}{49} = 2$$

A To result in  $\frac{1}{7}$ , you would raise  $\frac{1}{49}$  to the power of 2

B To result in  $\frac{1}{49}$ , you would raise  $\frac{1}{7}$  to the power of 2

3

What does the logarithm equation mean?

$$\log_{\frac{1}{4}} \frac{1}{16} = 2$$

A To result in  $\frac{1}{16}$ , you would raise 2 to the power of  $\frac{1}{4}$

B To result in  $\frac{1}{16}$ , you would raise  $\frac{1}{4}$  to the power of 2

4

What does the logarithm equation mean?

$$\log_{\frac{1}{10}} \frac{1}{100} = 2$$

A To result in 2, you would raise  $\frac{1}{100}$  to the power of  $\frac{1}{10}$

B To result in  $\frac{1}{100}$ , you would raise  $\frac{1}{10}$  to the power of 2

5

What does the logarithm equation mean?

$$\log_{\frac{1}{10}} \frac{1}{1,000} = 3$$

A To result in  $\frac{1}{1,000}$ , you would raise 3 to the power of  $\frac{1}{10}$

B To result in  $\frac{1}{1,000}$ , you would raise  $\frac{1}{10}$  to the power of 3

6

What does the logarithm equation mean?

$$\log_{\frac{1}{3}} \frac{1}{81} = 4$$

A To result in  $\frac{1}{3}$ , you would raise 4 to the power of  $\frac{1}{81}$

B To result in  $\frac{1}{81}$ , you would raise  $\frac{1}{3}$  to the power of 4

7

What does the logarithm equation mean?

$$\log_{\frac{1}{6}} \frac{1}{216} = 3$$

A To result in  $\frac{1}{216}$ , you would raise  $\frac{1}{6}$  to the power of 3

B To result in  $\frac{1}{6}$ , you would raise 3 to the power of  $\frac{1}{216}$

8

What does the logarithm equation mean?

$$\log_{\frac{1}{6}} \frac{1}{36} = 2$$

A To result in  $\frac{1}{36}$ , you would raise 2 to the power of  $\frac{1}{6}$

B To result in  $\frac{1}{36}$ , you would raise  $\frac{1}{6}$  to the power of 2