



Logarithms - Meaning, Words to Equation as Question Mark (Fractions)

1 Which logarithm equation answers this?

What number would you raise $\frac{1}{9}$ by to result in $\frac{1}{81}$?

A $\log_{\frac{1}{81}} \frac{1}{9} = ?$

B $\log_7 \frac{1}{9} = \frac{1}{81}$

C $\log_{\frac{1}{9}} \frac{1}{81} = ?$

D $\log_{\frac{1}{81}} ? = \frac{1}{9}$

2 Which logarithm equation answers this?

What number would you raise $\frac{1}{5}$ by to result in $\frac{1}{125}$?

A $\log_{\frac{1}{125}} ? = \frac{1}{5}$

B $\log_{\frac{1}{125}} \frac{1}{125} = ?$

C $\log_7 \frac{1}{5} = \frac{1}{125}$

D $\log_{\frac{1}{125}} \frac{1}{5} = ?$

3 Which logarithm equation answers this?

What number would you raise $\frac{1}{2}$ by to result in $\frac{1}{4}$?

A $\log_{\frac{1}{2}} \frac{1}{4} = ?$

B $\log_? \frac{1}{4} = \frac{1}{2}$

C $\log_{\frac{1}{4}} \frac{1}{2} = ?$

4 Which logarithm equation answers this?

What number would you raise $\frac{1}{5}$ by to result in $\frac{1}{25}$?

A $\log_{\frac{1}{25}} \frac{1}{25} = ?$

B $\log_7 \frac{1}{25} = \frac{1}{5}$

C $\log_{\frac{1}{25}} \frac{1}{5} = ?$

D $\log_7 \frac{1}{5} = \frac{1}{25}$

5 Which logarithm equation answers this?

What number would you raise $\frac{1}{3}$ by to result in $\frac{1}{81}$?

A $\log_7 \frac{1}{81} = \frac{1}{3}$

B $\log_{\frac{1}{81}} \frac{1}{3} = ?$

C $\log_{\frac{1}{81}} \frac{1}{81} = ?$

D $\log_7 \frac{1}{3} = \frac{1}{81}$

6 Which logarithm equation answers this?

What number would you raise $\frac{1}{2}$ by to result in $\frac{1}{16}$?

A $\log_{\frac{1}{16}} \frac{1}{2} = ?$

B $\log_{\frac{1}{16}} \frac{1}{2} = ?$

C $\log_{\frac{1}{16}} ? = \frac{1}{2}$

D $\log_7 \frac{1}{2} = \frac{1}{16}$

7 Which logarithm equation answers this?

What number would you raise $\frac{1}{3}$ by to result in $\frac{1}{9}$?

A $\log_? \frac{1}{3} = \frac{1}{9}$

B $\log_{\frac{1}{9}} ? = \frac{1}{3}$

C $\log_? \frac{1}{9} = \frac{1}{3}$

D $\log_{\frac{1}{3}} \frac{1}{9} = ?$

8 Which logarithm equation answers this?

What number would you raise $\frac{1}{6}$ by to result in $\frac{1}{36}$?

A $\log_{\frac{1}{36}} ? = \frac{1}{6}$

B $\log_7 \frac{1}{36} = \frac{1}{6}$

C $\log_{\frac{1}{6}} \frac{1}{36} = ?$

D $\log_{\frac{1}{36}} \frac{1}{6} = ?$