



Math worksheet on 'Logarithms - Meaning, Words to Equation as Question Mark (Fractions) (Level 1)'.
Part of a broader unit on 'Logarithms - Intro'

Learn online: app.mobius.academy/math/units/logarithms_intro/

1 Which logarithm equation answers this?

What number would you raise $\frac{1}{10}$ by to result in $\frac{1}{1,000}$?

a	$\log_{\frac{1}{1,000}} ? = \frac{1}{10}$	b	$\log_{\frac{1}{10}} \frac{1}{1,000} = ?$
c	$\log_? \frac{1}{1,000} = \frac{1}{10}$	d	$\log_? \frac{1}{10} = \frac{1}{1,000}$

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

3 Which logarithm equation answers this?

What number would you raise $\frac{1}{2}$ by to result in $\frac{1}{8}$?

a	$\log_{\frac{1}{8}} ? = \frac{1}{2}$	b	$\log_? \frac{1}{2} = \frac{1}{8}$	c	$\log_? \frac{1}{8} = \frac{1}{2}$	d	$\log_{\frac{1}{2}} \frac{1}{8} = ?$

4 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	$\log_? \frac{1}{81} = \frac{1}{9}$
c	$\log_{\frac{1}{9}} \frac{1}{81} = ?$	d	$\log_? \frac{1}{9} = \frac{1}{81}$

5 Which logarithm equation answers this?

What number would you raise $\frac{1}{6}$ by to result in $\frac{1}{216}$?

a	$\log_{\frac{1}{216}} ? = \frac{1}{6}$	b	$\log_{\frac{1}{6}} \frac{1}{216} = ?$
c	$\log_? \frac{1}{6} = \frac{1}{216}$	d	$\log_{\frac{1}{216}} \frac{1}{6} = ?$

6 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	$\log_? \frac{1}{36} = \frac{1}{6}$
c	$\log_{\frac{1}{6}} \frac{1}{36} = ?$	d	$\log_? \frac{1}{6} = \frac{1}{36}$

7 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	$\log_{\frac{1}{125}} \frac{1}{5} = ?$
c	$\log_{\frac{1}{125}} ? = \frac{1}{5}$	d	$\log_? \frac{1}{5} = \frac{1}{125}$