



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

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

2 Which logarithm equation shows this?

To result in $\frac{1}{64}$, you would
raise $\frac{1}{8}$ to the power of 2

a	$\log_{\frac{1}{8}} \frac{1}{64} = 2$	b	$\log_2 \frac{1}{64} = \frac{1}{8}$
c	$\log_2 \frac{1}{8} = \frac{1}{64}$	d	$\log_{\frac{1}{64}} 2 = \frac{1}{8}$
e	$\log_{\frac{1}{64}} \frac{1}{8} = 2$		

4 Which logarithm equation shows this?

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

a	$\log_2 \frac{1}{4} = \frac{1}{2}$	b	$\log_{\frac{1}{2}} \frac{1}{4} = 2$	c	$\log_{\frac{1}{4}} 2 = \frac{1}{2}$	d	$\log_2 \frac{1}{2} = \frac{1}{4}$
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6 Which logarithm equation shows this?

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

a	$\log_2 \frac{1}{7} = \frac{1}{49}$	b	$\log_{\frac{1}{49}} \frac{1}{7} = 2$
c	$\log_{\frac{1}{49}} 2 = \frac{1}{7}$	d	$\log_2 \frac{1}{49} = \frac{1}{7}$
e	$\log_{\frac{1}{49}} \frac{1}{7} = 2$		

1 Which logarithm equation shows this?

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

a	$\log_{\frac{1}{2}} \frac{1}{16} = 4$	b	$\log_{\frac{1}{16}} 4 = \frac{1}{2}$
c	$\log_4 \frac{1}{16} = \frac{1}{2}$	d	$\log_4 \frac{1}{2} = \frac{1}{16}$

3 Which logarithm equation shows this?

To result in $\frac{1}{27}$, you would
raise $\frac{1}{3}$ to the power of 3

a	$\log_3 \frac{1}{3} = \frac{1}{27}$	b	$\log_{\frac{1}{27}} \frac{1}{3} = 3$
c	$\log_{\frac{1}{27}} \frac{1}{3} = 3$		

5 Which logarithm equation shows this?

To result in $\frac{1}{8}$, you would
raise $\frac{1}{2}$ to the power of 3

a	$\log_{\frac{1}{8}} \frac{1}{2} = 3$	b	$\log_{\frac{1}{2}} \frac{1}{8} = 3$	c	$\log_3 \frac{1}{2} = \frac{1}{8}$	d	$\log_3 \frac{1}{8} = \frac{1}{2}$
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7 Which logarithm equation shows this?

To result in $\frac{1}{64}$, you would
raise $\frac{1}{4}$ to the power of 3

a	$\log_{\frac{1}{4}} \frac{1}{64} = 3$	b	$\log_{\frac{1}{64}} 3 = \frac{1}{4}$
c	$\log_{\frac{1}{64}} \frac{1}{4} = 3$	d	$\log_3 \frac{1}{64} = \frac{1}{4}$