



Math worksheet on 'Logarithms - Solve Exponent Equation (Fraction Base) (Level 1)'. Part of a broader unit on 'Logarithms - Intro'

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

1 Solve for the missing exponent $\frac{1^x}{2} = \frac{1}{16}$	a $x = 3$	b $x = 13$
	c $x = 4$	d $x = -5$
	e $x = -1$	f $x = 9$

2 Solve for the missing exponent $\frac{1^x}{2} = \frac{1}{4}$	a $x = -2$	b $x = 4$
	c $x = 0$	d $x = 2$
	e $x = -6$	f $x = 9$

3 Solve for the missing exponent $\frac{1^x}{10} = \frac{1}{100}$	a $x = 7$	b $x = -4$
	c $x = -8$	d $x = 10$
	e $x = 2$	f $x = 1$

4 Solve for the missing exponent $\frac{1^x}{3} = \frac{1}{81}$	a $x = 6$	b $x = 1$
	c $x = -4$	d $x = 4$
	e $x = 8$	f $x = 5$

5 Solve for the missing exponent $\frac{1^x}{6} = \frac{1}{216}$	a $x = 3$	b $x = 2$
	c $x = -1$	d $x = -7$
	e $x = 8$	f $x = -2$

6 Solve for the missing exponent $\frac{1^x}{3} = \frac{1}{27}$	a $x = 7$	b $x = -6$
	c $x = -3$	d $x = -5$
	e $x = 3$	f $x = 12$

7 Solve for the missing exponent $\frac{1^x}{3} = \frac{1}{9}$	a $x = 0$	b $x = 10$
	c $x = 7$	d $x = 2$
	e $x = -5$	f $x = -1$