



Math worksheet on 'Logarithms - Solve Exponent Equation (Fraction Value) (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 $2^x = \frac{1}{8}$	a $x = 1$	b $x = -13$
	c $x = -1$	d $x = -5$
	e $x = -3$	f $x = -8$

2 Solve for the missing exponent $4^x = \frac{1}{16}$	a $x = -10$	b $x = -11$
	c $x = -8$	d $x = -2$
	e $x = -12$	f $x = 4$

3 Solve for the missing exponent $3^x = \frac{1}{9}$	a $x = -2$	b $x = -12$
	c $x = -11$	d $x = -6$
	e $x = 3$	f $x = 5$

4 Solve for the missing exponent $6^x = \frac{1}{216}$	a $x = 6$	b $x = 4$
	c $x = -3$	d $x = -4$
	e $x = 1$	f $x = -5$

5 Solve for the missing exponent $3^x = \frac{1}{27}$	a $x = 3$	b $x = -7$
	c $x = -3$	d $x = 4$
	e $x = 0$	f $x = 1$

6 Solve for the missing exponent $7^x = \frac{1}{49}$	a $x = -6$	b $x = 4$
	c $x = -5$	d $x = -12$
	e $x = -2$	f $x = -11$

7 Solve for the missing exponent $9^x = \frac{1}{81}$	a $x = 3$	b $x = -2$
	c $x = 4$	d $x = 0$
	e $x = -10$	f $x = 6$