



Logarithms - Solve Exponent Equation (Fraction Base)

<p>1 Solve for the missing exponent</p> $\left(\frac{1}{6}\right)^x = \frac{1}{36}$	<p>A $x = 2$</p>	<p>B $x = -8$</p>	<p>2 Solve for the missing exponent</p> $\left(\frac{1}{3}\right)^x = \frac{1}{81}$	<p>A $x = 6$</p>	<p>B $x = 1$</p>
	<p>C $x = -4$</p>	<p>D $x = -7$</p>		<p>C $x = 4$</p>	<p>D $x = 3$</p>
	<p>E $x = -5$</p>	<p>F $x = 11$</p>		<p>E $x = 13$</p>	<p>F $x = 5$</p>
<p>3 Solve for the missing exponent</p> $\left(\frac{1}{9}\right)^x = \frac{1}{81}$	<p>A $x = 4$</p>	<p>B $x = -3$</p>	<p>4 Solve for the missing exponent</p> $\left(\frac{1}{8}\right)^x = \frac{1}{64}$	<p>A $x = 4$</p>	<p>B $x = -4$</p>
	<p>C $x = -5$</p>	<p>D $x = -1$</p>		<p>C $x = -7$</p>	<p>D $x = 2$</p>
	<p>E $x = 2$</p>	<p>F $x = 5$</p>		<p>E $x = -2$</p>	<p>F $x = 0$</p>
<p>5 Solve for the missing exponent</p> $\left(\frac{1}{5}\right)^x = \frac{1}{25}$	<p>A $x = -3$</p>	<p>B $x = 8$</p>	<p>6 Solve for the missing exponent</p> $\left(\frac{1}{2}\right)^x = \frac{1}{16}$	<p>A $x = -4$</p>	<p>B $x = 7$</p>
	<p>C $x = 2$</p>	<p>D $x = -2$</p>		<p>C $x = 2$</p>	<p>D $x = 4$</p>
	<p>E $x = 6$</p>	<p>F $x = 7$</p>		<p>E $x = 9$</p>	<p>F $x = -5$</p>
<p>7 Solve for the missing exponent</p> $\left(\frac{1}{10}\right)^x = \frac{1}{100}$	<p>A $x = 3$</p>	<p>B $x = 8$</p>	<p>8 Solve for the missing exponent</p> $\left(\frac{1}{2}\right)^x = \frac{1}{8}$	<p>A $x = -3$</p>	<p>B $x = -7$</p>
	<p>C $x = 2$</p>	<p>D $x = -4$</p>		<p>C $x = 11$</p>	<p>D $x = -2$</p>
	<p>E $x = -8$</p>	<p>F $x = 10$</p>		<p>E $x = -4$</p>	<p>F $x = 3$</p>