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here are more examples of equivalent logarithmic and exponential equations definition of a logarithm generalizing the examples above leads us to the formal definition of a logarithm $\log_b a = c$ $b^c = a$ both equations describe the same relationship between a , b and c b is the base c is the exponent and

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in its simplest form a logarithm answers the question how many of one number multiply together to make another number example how many 2 s multiply together to make 8 answer 2 2 2 8 so we had to multiply 3 of the 2 s to get 8 so the logarithm is 3 how to write it we write it like this $\log_2 8 = 3$ so these two things are the same

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examples of how to apply the log rules example 1 evaluate the expression below using log rules $\log_2 8 \log_2 4$ express 8 and 4 as exponential numbers with a base of 2 then apply power rule followed by identity rule

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logarithms examples example 1 solve $\log_2 64$ solution since $2^6 = 64$ 6 is the exponent value and $\log_2 64 = 6$ example 2 what is the value of $\log_{10} 100$ solution in this case 10^2 yields you 100 so 2 is the exponent value and the value of $\log_{10} 100 = 2$ example 3

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logarithm the exponent or power to which a base must be raised to yield a given number expressed mathematically x is the logarithm of n to the base b if $b^x = n$ in which case one writes $x = \log_b n$ for example $2^3 = 8$ therefore 3 is the logarithm of 8 to base 2 or $3 = \log_2 8$ in the same fashion since $10^2 = 100$ then $2 = \log_{10} 100$

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a logarithm is the inverse of the exponential function specifically a logarithm is the power to which a number the base must be raised to produce a given number for example $\log_2 64 = 6$ $\log_2 64 = 6$ because $2^6 = 64$ in general we have the following definition $z = \log_x y$ z is the base x logarithm of y if and only if $x^z = y$

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the logarithm of a product of two numbers is the sum of the logarithms of the individual numbers i.e. $\log_a mn = \log_a m + \log_a n$ note that the bases of all logs must be the same here this resembles is derived from the product rule of exponents $x^m \times x^n = x^{m+n}$ examples $\log_6 3 \times 2 = \log_6 3 + \log_6 2$

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math solver worksheets new logarithms explained if you are familiar with the exponential function $b^n = m$ then you should know that its logarithmic equivalence is $\log_b m = n$ these two seemingly different equations are in fact the same or equivalent in every way

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here are some examples of conversions from exponential to logarithmic form and vice versa find the value of $\log_7 343$ solution as we know $7^3 = 343$ thus $\log_7 343 = 3$ convert $3^5 = 243$ in its logarithmic form solution as we know $b^x = a \Rightarrow \log_b a = x$ here $3^5 = 243 \Rightarrow \log_3 243 = 5$ the required logarithmic form

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some of the many examples include $\log_2 1 = 0$ $\log_5 1 = 0$ $\log 1 = 0$ and $\ln 1 = 0$ this rule is true since the value of a logarithmic expression is always equal to the power that the base of the logarithm must be raised to in order to obtain the value of the input of the logarithm

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$\log 1000$ $\log 100$ why is this useful logarithms put numbers on a human friendly scale

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what are logarithmic functions we can think of logarithmic functions as the inverse of exponential functions the following diagram shows how logarithm and exponents are related scroll down the page for examples and solutions show video lesson on introduction to logarithmic functions how to solve for x in logarithmic equations

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examples of how to solve logarithmic equations example 1 solve the logarithmic equation since we want to transform the left side into a single logarithmic equation we should use the product rule in reverse to condense it here is the rule just in case you forgot given apply product rule from log rules

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the logarithm of a number is expressed in the form of $\log_b n = x$ where b is the base and can be any number except 1 and zero x and n are the exponent and argument respectively for example the logarithm of 32 to base 2 is 5 and can be represented as $\log_2 32 = 5$

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quiz unit test about this unit logarithms are the inverses of exponents they allow us to solve challenging exponential equations and they are a good excuse to dive deeper into the relationship between a function and its inverse introduction to logarithms learn intro to logarithms intro to logarithms evaluating logarithms advanced

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$a^n = b \Rightarrow \log_a b = n$ although logarithms are taught in schools to simplify computation involving large numbers they still have a significant role in our daily lives let's see some of these applications of logarithms we use logarithms to measure the acidity and alkalinity of chemical solutions

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example calculate y in $y \log_4 14$ start with $y \log_4 14$ use the exponential function on both sides $4^{y \log_4 14}$ simplify $4^y = 14$ now a simple trick $14 = 4^1$ so $4^y = 4^1$ and so $y = 1$

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