

# Get Free Logarithmic Word Problems With Solutions

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- Logarithms

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Solving Logarithmic Equations, Word  
Problems ~~Solving Logarithmic Equations~~  
Logarithmic Word Problems - Lesson

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Solving word problems using logarithms

~~Exponential Function Word Problems~~

~~Exponential Growth and Decay Word~~

~~Problems \u0026amp; Functions Algebra~~

~~\u0026amp; Precalculus Exponential growth~~

~~and decay word problems | Algebra II |~~

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Solving Exponential Equations With Different Bases Using Logarithms - Algebra Solving Natural Log Equations  
~~Solving logarithmic equations | Exponential and logarithmic functions | Algebra II | Khan Academy~~ Algebra

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~~Review Exponential Growth and Decay~~  
Logarithms - Real Life Applications |  
Logs | Don't Memorise ~~Exponential~~  
~~Growth and Decay Functions 143 5.6.1.a~~  
Exponential Decay Word Problems  
Exponential Equations: Half-Life  
Applications ~~College Algebra Unit 4~~  
~~Notes Exponential and Logarithmic Word~~

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~~Problems 2016 Common Log Word~~

~~Problems~~ Word Problems with

Exponential Functions Lesson 5.7 - Exp  
and Log Word Problems

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Solving Exponential and Logarithmic  
equations and Word problems

~~APPLICATIONS OF LOGARITHMS IN  
REAL LIFE SITUATIONS || GRADE 11~~



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~~GENERAL MATHEMATICS Q1~~

~~Exponential Growth and Decay Word~~

~~Problems~~ Logarithmic Word Problem:

Sound Intensity ~~Logarithmic Word~~

~~Problems With Solutions~~

Logarithmic word problems, in my experience, generally involve evaluating a given logarithmic equation at a given

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point, and solving for a given variable; they're pretty straightforward.

~~Logarithmic Word Problems - Purplemath~~

Tag Archives: algebra logarithmic word problems and solutions. Categories.

Absolute Value (2) Absolute Value

Equations (1) Absolute Value Inequalities

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~~algebra logarithmic word problems and solutions Archives ...~~

For problems 1 – 3 write the expression in

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logarithmic form.  $75 = 16807$   $7^5 = 16807$   
Solution.  $163^4 = 8163^4 = 8$  Solution.  $(13)^2 = 9$   $(13)^2 = 9$  Solution. For  
problems 4-6 write the expression in  
exponential form.  $\log_2 32 = 5$   $\log_2 32 = 5$   
Solution.  $\log_{15} 1625 = 4$   $\log_{15} 1625 =$   
4 Solution.

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~~Algebra Logarithm Functions (Practice Problems)~~

Logarithmic Word Problems Worksheet  
Answers. Posted on February 21, 2020 by  
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Zombie Exponential Growth Teaching Algebra Coordinates Math Exponential .

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Answers | Easy ...~~

This video is about word problems involving logarithms: Richter Scale, Decibel Scale, pH Scale - Lesson

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~~Logarithmic Word Problems Lesson~~  
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Chapter 12\_Logarithms Word Problems  
Problems Solved! 12.5 - 8 Acidity Model □  
 $\text{pH} = -\log(\text{H}^+)$  PH is a measure of the  
hydrogen ion concentration  $\text{H}^+$  in moles  
of hydrogen per liter. Remember that a

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logarithm without an indicated base is assumed to be base 10, the common logarithm.

## ~~Chapter 12 Logarithms~~

Logarithmic Equations: Problems with Solutions. The equation is defined for  $x + 2 > 0$   $\displaystyle x + 2 > 0$ . We



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raise 2 to the power of each side of the equation. The resulting equation is.  $x = 6$   
 $\displaystyle x=6$   $x = 6$ . The logarithm function is defined for  $x > 0$ ,  $x \neq 1$   
 $\displaystyle x > 0, x \neq 1$   $x > 0$ ,  $x = 1$ .  $x = \pm 6$   
 $\displaystyle x = \pm 6$   $x = \pm 6$ , but  $x > 0$   
 $\displaystyle x>0$   $x > 0$ , therefore  $x = 6$   
 $\displaystyle x=6$   $x = 6$  is the only

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solution.

## ~~Logarithmic Equations: Problems with Solutions~~

Solution You should solve an equation  $S(t)=20000$ , which is , for unknown  $t$ .

Divide both side of this equation by the initial amount of 10000. You get an

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equation . Take logarithm base 10 from both sides. You get an equation . Apply the Power Rule to the logarithm. You get an equation . Therefore, (approximately 12 years).

~~Lesson Using logarithms to solve real world problems~~

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To solve an exponential or logarithmic word problems, convert the narrative to an equation and solve the equation. We are going to discuss several types of word problems. Click on the one that you want to review: 1. Interest Rate Problems 2. Mortgage Problems 3. Population Problems 4. Radioactive Decay Problems

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## 5. Earthquake Problems

~~SOLVING WORD PROBLEMS S.O.S.~~

~~Mathematics~~

$4x1e=-$  Rewrite the problem in exponential form by moving the base of the logarithm to the other side. For natural logarithms the base is  $e$ .  $4x120.08-55\gg37$

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Simplify the problem by cubing  $e$ . Round the answer as appropriate, these answers will use 6 decimal places.  $x \approx 5.271384$

Solve for  $x$  by adding 1 to each side and then dividing each side by 4.  $x \approx 5.271384$

Check the answer; this is an acceptable answer because we get a positive number when it is plugged back in .

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## ~~Solving Logarithmic Equations~~

Solution:  $\log_3 x = 2 \implies 3^2 = x \implies x = 9.$

Example: Solve  $\log_x (4x - 3) = 2.$

Solution:  $\log_x (4x - 3) = 2 \implies x^2 = 4x - 3 \implies x^2 - 4x + 3 = 0 \implies (x - 1)(x - 3) = 0$  So,  $x = 1$  or  $3.$  For the logarithm to be defined, the only solution is  $3.$  How to solve a logarithmic

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equation using properties of logarithms?


~~Logarithmic Functions (video lessons, examples and solutions)~~

Problem: Solution: Write an equation to describe the logarithmic function in form  $y = a \log_b(x)$ , with base 3 and passing through the point  $(81, 2)$



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$\log_3(x)$ ). The equation will be in the form  $y = a \log_3(x)$ , since the base is 3. Plug in 81 for  $x$  and 2 for  $y$ , and solve for  $a$ :

~~Logarithmic Functions~~  ~~She Loves Math~~  
Stuck on logarithmic word problems? You are in luck. Today you will take a journey

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with me discover the joy that is using logarithms to solve exponential equ...

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~~YouTube~~

Logarithm Worksheets Logarithms, the inverse of the exponential function, are used in many areas of science, such as

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biology, chemistry, geology, and physics. When students have a solid foundation in logarithms, they are prepared for advanced science classes, and they can feel confident in any career choice.

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edHelper.com~~

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A logarithmic function is a function of the form  $y = \log_b x$ , which is read "y equals the log of x, base b" or "y equals the log, base b, of x." In both forms,  $x > 0$  and  $b > 0, b \neq 1$ .

There are no restrictions on y. Example 1. Rewrite each exponential equation in its equivalent logarithmic form. The solutions follow.  $5^2 = 25$ . Example 2

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~~Logarithmic Functions — CliffsNotes~~

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Solution: Since  $3 \times (2 \times 2^x) = 3 \times (2 \times 2) \times x = (3 \times 4) \times x = 12 \times x$  the equation becomes.  $12 \times x = 7(5 \times x)$  Common And Natural

Logarithms. We can use many bases for a

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logarithm, but the bases most typically used are the bases of the common logarithm and the natural logarithm. The common logarithm has base 10, and is represented on the calculator as  $\log(x)$ .

~~Common and Natural Logarithm (video lessons, examples and ...~~

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