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# **Exponential Growth And Decay Word Problems Worksheet Answers**

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## **Exponential Growth And Decay Word**

exponential growth

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and decay word problems In this section, we are going to see how to solve word problems on exponential growth and decay. Before look at the problems, if you like to learn about exponential growth and decay,

### **Exponential Growth and Decay Word Problems**

Let's do a couple of word problems dealing

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with exponential growth and decay. So this first problem, suppose a radioactive substance decays at a rate of 3.5% per hour. What percent of the substance is left after 6 hours? So let's make a little table here, to just imagine what's going on.

**Exponential growth & decay word problems (video) | Khan...**

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## **Exponential Growth And Decay Word Problem Worksheets**

...

Exponential Growth  
and Decay Exponential  
decay refers to an  
amount of substance  
decreasing  
exponentially.

Exponential decay is a  
type of exponential



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function where instead of having a variable in the base of the function, it is in the exponent. Exponential decay and exponential growth are used in carbon dating and other real-life applications.

### **Exponential Growth and Decay (examples, solutions**

...

Exponential word problems almost

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always work off the growth / decay formula,  $A = Pe^{rt}$ , where "A" is the ending amount of whatever you're dealing with (money, bacteria growing in a petri dish, radioactive decay of an element highlighting your X-ray), "P" is the beginning amount of that same "whatever", "r" is the growth or decay rate, and "t" is time.

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Exponential Growth  
and Decay Word  
Problems Write an  
equation for each  
situation and answer  
the question. (1)  
Bacteria can multiply  
at an alarming rate  
when each bacteria  
splits into two new  
cells, thus doubling. If  
we start with only one  
bacteria which can

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double every hour, how many bacteria will we have by the end of one day?

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Half-Life Applying  
logarithms and  
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72, exponential vs.  
linear models, and  
more.

**Word Problems:**  
**Interest,**

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**Growth/Decay, and  
Half-Life**

A function of the form  $y = a(1 + r)^t$ , where  $a > 0$  and  $r > 0$ , is an exponential growth function. initial amount  
time growth factor rate of growth (in decimal form) final

amount  $y = a(1 + r)^t$

What You Will

Learn what You Will

Learn Use and identify exponential growth and decay functions.

Interpret and rewrite

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exponential growth  
and decay functions.

## **Exponential Growth and Decay**

Exponential  
growth/decay formula.  
 $x(t) = x_0 \times (1 + r)^t$ .  $x(t)$  is the value at time  $t$ .  $x_0$  is the initial value at time  $t=0$ .  $r$  is the growth rate when  $r > 0$  or decay rate when  $r < 0$ , in percent.  $t$  is the time in discrete intervals and selected time units.



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problems (numerical)  
Initial value & common  
ratio of exponential  
functions.

## Answers

**Exponential  
expressions word  
problems  
(numerical) (video ...**

Exponential Growth  
and Decay Name \_\_\_\_\_

Date \_\_\_\_\_ Period \_\_\_\_\_

Solve each exponential  
growth/decay problem.

1) For a period of time,  
an island's population

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grows at a rate

proportional to its

population. If the

growth rate is 3.8% per

year and the current

population is 1543,

what will the

population be 5.2 years

from

**Exponential Growth**

**and Decay - Kuta**

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and Decay Calculus,

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Introduction to  
Exponential Growth  
and Decay Remember  
that Exponential  
Growth or Decay  
means something is  
increasing or  
decreasing an  
exponential rate (faster  
than if it were linear).  
We usually see  
Exponential Growth  
and Decay problems  
relating to populations,  
bacteria, temperature,  
and so on, usually as a  
function of time.

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## **Exponential Growth Using Calculus - She Loves Math**

than 1, is the growth factor. Exponential Functions: General Form Type General Graph a-value b-value for word problems: Two Major Types for word problems: For each of the following equations, write whether it is exponential growth or decay and then write

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the y-intercept. (Try to  
do this without the  
calculator!)  $1.5 \cdot 0.1X$   
2.  $y = 80$

### **exponential growth and decay word problems**

Exponential Growth  
and Decay Calculator  
Use our online  
exponential growth  
and decay calculator  
by entering the initial  
value ( $x_0$ ), decay rate  
( $r$ ) and time ( $t$ ) in the  
below calculator and



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