

Exponential Growth and Decay

Date _____ Period _____

Solve each exponential growth/decay problem.

- 1) For a period of time, an island's population 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 now?
- 2) During the exponential phase, *E. coli* bacteria in a culture increase in number at a rate proportional to the current population. If the growth rate is 1.9% per minute and the current population is 172.0 million, what will the population be 7.2 minutes from now?
- 3) Radioactive isotope Carbon-14 decays at a rate proportional to the amount present. If the decay rate is 12.10% per thousand years and the current mass is 135.2 mg, what will the mass be 2.2 thousand years from now?
- 4) A savings account balance is compounded continuously. If the interest rate is 3.1% per year and the current balance is \$1077.00, in how many years will the balance reach \$1486.73?

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

2) During the exponential phase, *E. coli* bacteria in a culture increase in number at a rate proportional to the current population. If the growth rate is 1.9% per minute and the current population is 172.0 million, what will the population be 7.2 minutes from now?

Exponential Growth Decay Application Worksheet

J Rink



Exponential Growth Decay Application Worksheet:

Whispering the Secrets of Language: An Mental Journey through **Exponential Growth Decay Application Worksheet**

In a digitally-driven world wherever screens reign supreme and instant communication drowns out the subtleties of language, the profound strategies and mental subtleties hidden within phrases often move unheard. However, nestled within the pages of **Exponential Growth Decay Application Worksheet** a captivating fictional prize pulsating with organic thoughts, lies an extraordinary quest waiting to be undertaken. Penned by a skilled wordsmith, that charming opus attracts readers on an introspective trip, delicately unraveling the veiled truths and profound influence resonating within the cloth of each and every word. Within the mental depths of the emotional review, we will embark upon a heartfelt exploration of the book is key themes, dissect its charming writing style, and yield to the strong resonance it evokes deep within the recesses of readers hearts.

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