

**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) Using the exponential growth formula,  $A = P e^{rt}$ , where  $A$  is the amount after time  $t$ ,  $P$  is the principal,  $r$  is the rate, and  $t$  is the time. In this problem,  $P = 1543$ ,  $r = 0.038$ , and  $t = 5.2$ . Substituting these values into the formula, we get  $A = 1543 e^{0.038(5.2)}$ . Solving for  $A$ , we get  $A \approx 1843.5$ . The population will be approximately 1843.5 in 5.2 years.

2) Using the exponential growth formula,  $A = P e^{rt}$ , where  $A$  is the amount after time  $t$ ,  $P$  is the principal,  $r$  is the rate, and  $t$  is the time. In this problem,  $P = 172.0$  million,  $r = 0.019$ , and  $t = 7.2$ . Substituting these values into the formula, we get  $A = 172.0 e^{0.019(7.2)}$ . Solving for  $A$ , we get  $A \approx 188.5$  million. The population will be approximately 188.5 million in 7.2 minutes.

# Percent Growth And Decay Pre Calc Worksheet Tesccc

**Marilyn Occhiogrosso**



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