Exponential Growth & Decay Practice Problems

1. The population of Ontario has been increasing exponentially since 1991. The approximate population, P, in millions, can be modeled by the function $P = 10.1(1.0125)^n$, where n is the numbers of years since 1991.
   a) Estimate the population of Ontario in: i) 1991   ii) 2000   iii) 2005
   b) At what rate is the population growing?

2. A new car decreases in value exponentially after it is purchased. The value, V dollars, of a new car n years after it is purchased is given by the function $V = 20000(0.84)^n$.
   a) What is the value of the car when it is 5 years old?
   b) What is the value of the car after the first year?
   c) By what percent does the value of the car depreciate each year?

3. A rare stamp was first appraised in 1995. Its value was then predicted to grow in value each year and could be modeled by the function $V = 65(1.07)^n$.
   a) What will the stamp be worth in the year 2050?
   b) What value was the stamp appraised at in 1995?
   c) At what rate is the value increasing?

4. Blue jeans fade with repeated washing. The percent of its original colour, C, which remains after x washings is given by the function $C = 100(0.98)^x$.
   a) What percent of colour will remain after 20 washings?
   b) What percent of colour will remain after 50 washings?
   c) What percentage of colour do the jeans lose after each wash?

5. A dish has 212 bacteria in it. The population of bacteria will grow by 80% every 2 days. How many bacteria will be present in:
   a) 4 days   b) 8 days   c) 11 days

6. The house down the street has termites in the porch. The exterminator estimated that there are about 800,000 termites eating at the porch. He said that the treatment he put on the wood would kill 40% of the termites every day. How many termites will be eating at the porch in...
   a) 3 days   b) 36 hours   c) 2 weeks

7. In November, an 11th grade class will start out with 10 mealworms for an experiment. The population of worms will double (grow by 100%) every month. How many mealworms will the class have for their experiment in...
   a) 3 months   b) 1 year   c) 45 days

8. Your baby brother has an ear infection. The doctor said there are probably 50,000,000 bacteria in his left ear. The penicillin the doctor prescribed will kill 7% of the bacteria every 6 hours. How many bacteria will be in your brother's ear in...
   a) 1 day   b) 5 days   c) 1 week   d) 3 hours

9. The value of a Van Gogh painting increases by 7.3% each year. If it was valued at $94,000 in 1952, what will be its estimated worth in 2020?

10. The population of Bolton was 11,171 in 2000. The estimated population growth is 2.1% every 4 years. What is the estimated population for the year...
    a) 2020   b) 2001   c) 2011   d) at the beginning of the next century

11. In 2017, an estimated 4,324,000 people in this country are illiterate. With new incentives and funding, the country is hoping to cut that number by 11% every 3 years. How many people do you predict will be illiterate in the year...
    a) 2035   b) 2092   c) 2156

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