

1. Suzy's grandmother put \$1800 in the bank for her when she was born. The bank pays 3% annual interest. How much will be in the account on her 16th birthday?
2. Suzy was doing an experiment designed to monitor the growth of a particular type of bacteria. She discovered that the bacteria grows at a rate of 23% per day. If she started out with 2,000, how many will there be in 3 weeks?
3. Maggie won the lottery (\$100,000). She put her money in an account that pays 6% annual interest compounded monthly. How much will be in the account in 9 years?
4. Sally inherited \$20,000 from her aunt. She put it in an account that pays 4.5% annual interest compounded continuously. How much will be in the account after 12 years?
5. Suzy bought a piece of machinery for her burrito shop for \$12,000. It depreciates at a rate of 13% annually. What will it be worth after 6 years?

6. Suzy deposited some money into an account that paid 5% compounded continuously. After 8 years there was \$29,836.49 in the account. How much did she originally deposit?

7. Suzy bought a car on her 16th birthday for \$15,000. It depreciates at an annual rate of 11%. How long did she have it if it was worth \$6,635 when she sold it?

8. Suzy put \$800 in an account that pays 8% compounded quarterly. When she decides to withdraw it, the balance is \$2069.66. How long was the money in the account?

9. Suzy's godfather, Mick Jagger, put \$100,000 into an account the day she was born. The account paid continuous interest. On her 21st birthday the balance in the account was \$208,548.20. What interest rate did the account earn (round to the nearest tenth of a percent)?

10. The population of Suzyville was 132,000 in 2000 when Suzy was elected mayor. Since then the town has grown at a constant rate. If the population in 2009 was 242,677, by what rate did the population grow during that time?