

**DIRECTIONS:** Solve. Give monetary answers in dollars and cents (\$###.##). All other answers should be rounded to two decimal places.

1. The value of a new \$24,500 automobile decreases 20% per year. Find its value after...
  - a. 1 year
  - b. 2 years
  - c. 5 years
  - d. 10 years
  
2. The value of a new \$7,500 sailboat decreases 10% per year. Find its value after...
  - a. 1 year
  - b. 5 years
  - c. 10 years
  - d. 20 years
  
3. A gold coin appreciated in value from \$100 to \$238 in seven years. Find the annual rate of appreciation.
  
4. Eight years ago, Miguel paid \$250 for a rare stamp. Its current value is \$1000. Find the annual rate of appreciation.
  
5. A tractor cost \$52,000 five years ago. Now it is worth \$39,000. Find the annual rate of depreciation.
  
6. A new car that cost \$22,000 decreased in value to \$10,000 in 6 years. Find the annual rate of depreciation.
  
7. The value of a new \$3,000 television decreases 25% per year. How long (in years) will it take for the value of the television to be \$500?
  
8. The population of Super City increases 5% per year. The current population is 47,000 people. How long (in years) will it take for the population to reach 70,000?