The following gives different populations as functions of time, where t is in years.

 $P_{1} = 8000(2)^{2t}$   $P_{2} = 8000(2)^{6t}$   $P_{3} = 8000(1.03)^{t/6}$   $P_{4} = 8000(2)^{t/6}$   $P_{5} = 8000(2)^{t/2}$ A. The population doubles in size every 2 years. B. The population doubles every 6 months. C. The population grows by 3% every 6 years. D. The population doubles in size every 2 months.

Directions: Match the description of the population with the formula. Then construct your own description for the formula that is not used. Also determine which population is increasing the fastest.