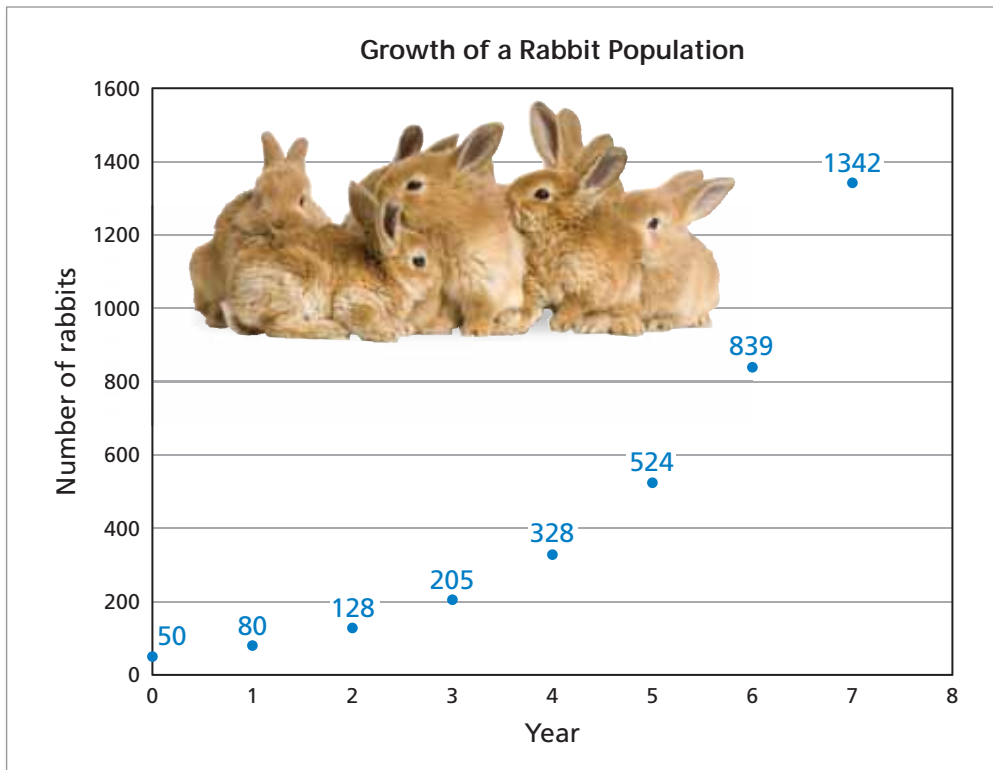


Rabbits A rabbit population is introduced to a new area. The graph shows the growth of the rabbit population. In Exercises 7–12, use the graph. (See Example 3.)



7. What does the population for year 0 represent?
 8. At what rate is the rabbit population increasing?
 9. Suppose the population growth continued for another year. Predict the number of rabbits in year 8.
 10. Suppose the population growth continued for another 3 years. Predict the number of rabbits in year 10.
 11. When does the rabbit population exceed 3000?
 12. When does the rabbit population exceed 6000?
- DATA** 13. **Population Growth** A rabbit population grows exponentially over a 10-year period. The population in year 3 is 150. The population in year 4 is 204. Predict the number of rabbits in year 10. (See Example 3.)
- DATA** 14. **Disease Outbreak** The outbreak of a disease causes a rabbit population to decrease exponentially over a 6-year period. The population in year 2 is 1200. The population in year 3 is 960. Predict the number of rabbits in year 6. (See Example 4.)

