1. Rewrite each power as a multiplication expression. Use a calculator to evaluate.
   
   a. \(2^7\)  
   b. \(3^2\)  
   c. \(1^9\)  
   d. \(7^3\)  

2. Rewrite each multiplication expression as a power. Use your calculator's exponent function to evaluate.
   
   a. \(4 \times 4 \times 4\)  
   b. \(5 \times 5 \times 5\)  
   c. \(10 \times 10 \times 10 \times 10 \times 10 \times 10\)  
   d. \(6 \times 6\)  

3. Use exponent rules to rewrite each expression with only one exponent.
   
   a. \(1^6 \times 1^{14}\)  
   b. \(8^2 \times 8\)  
   c. \(\frac{5^5}{5^3}\)  
   d. \(\frac{3^{10}}{3^6}\)  
   e. \((4^2)^1\)  
   f. \((2^3)^3\)  

4. A science lab did two experiments on some populations of bacteria. In each experiment, the initial population was \(5^2\) bacteria. After Experiment A, the initial population increased \(5^4\) times. After Experiment B, the initial population increased to the third power.
   
   a. After Experiment A, what is the population of the bacteria?
   
   b. After Experiment B, what is the population?