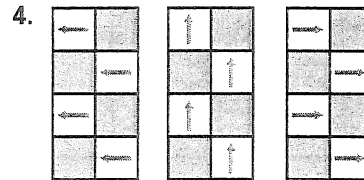
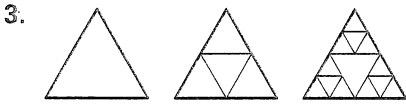
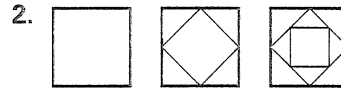
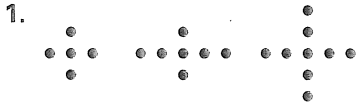


Practice C

For use with pages 3–9

Sketch the next figure in the pattern.



Lesson 1.1

Describe a pattern in the sequence of numbers. Predict the next number.

5. 123, 133, 113, 123, ...

6. 5, 8, 13, 20, 29, ...

7. 22, 20, 17, 13, ...

8. 0.49, 0.64, 0.81, 1, ...

9. 8, 15, 29, 57, ...

10. -7, -4, -1, 2, ...

11. 2, -4, 8, -16, ...

12. $\frac{3}{7}, \frac{6}{5}, \frac{9}{3}, \frac{12}{1}, \dots$

In Exercises 13 and 14, the number of bacteria after n hours is given in the table. Predict the number of bacteria after 8 hours.

13.

n (hours)	1	2	3	4	5
number of bacteria	3	6	12	24	48

14.

n (hours)	1	2	3	4	5
number of bacteria	640	320	160	80	40

In Exercises 15–17, show the conjecture is false by finding a counterexample.

15. The difference of two whole numbers is a whole number.

16. The absolute value of the sum of two numbers is the sum of their absolute values, meaning $|a + b| = |a| + |b|$.

17. If $m \neq -1$, then $\frac{m}{m-1} > 1$.