LESSON 1

Is There a Pattern Here?

Recognizing Patterns and Sequences

KEY TERMS

sequence

term of a sequence

infinite sequence

finite sequence

Learning Goals

- Recognize and describe patterns.
- Represent patterns as sequences.
- Predict the next term in a sequence.
- Represent a sequence as a table of values.

REVIEW (1–2 minutes)

Each set shows the distance in miles a car traveled at the end of each hour for 4 hours. Determine whether each set shows a constant rate of change. If the rate is constant, write the rate.

1. {55, 110, 165, 220}

2. {11, 22, 33, 44}

3. {30, 35, 45, 60}

4. {0, 0, 0, 0}

Since early elementary school, you have been recognizing and writing patterns involving shapes, colors, letters, and numbers.

How do patterns relate to sequences and how can you represent them in tables?