

# Skills Practice

## *Problem-Solving Investigation: Look for a Pattern*

Solve.

- 1. ART** A sculptor is using a pattern of glass cubes to create a sculpture with 5 sections. The first section has 4 cubes, the second section has 8 cubes, and the third section has 16 cubes. If the pattern continues, how many cubes will be in the fifth section?
- 2. SCRAPBOOKING** Mika is making a pattern of circles. The smallest circle has a diameter of 8.2 centimeters. The next circle has a diameter of 12.4 centimeters, and the circle after that has a diameter of 16.6 centimeters. What is the diameter of the sixth circle?
- 3. PYRAMID** The bottom layer of a pyramid has 150 blocks. The layer above the bottom has 120 blocks. The third layer from the bottom has 90 blocks. If the pattern continues, how many blocks will be in the next two layers?
- 4. APPLES** At a farmer's market, 3 apples cost \$1.50, 6 apples cost \$3, and 9 apples cost \$4.50. How much will 12 apples cost?