

## LESSON 4-1

### Practice and Problem Solving: A/B

1. The area is multiplied by  $\frac{3}{4}$ .
2. The area is divided by 6.
3. The area is multiplied by 2.
4. The perimeter is multiplied by  $\frac{4}{3}$ .  
The area is multiplied by  $\frac{16}{9}$ .
5. The perimeter is tripled. The area is multiplied by 9.
6. The perimeter is multiplied by  $\frac{1}{2}$ .  
The area is multiplied by  $\frac{1}{4}$ .
7. The surface area is multiplied by 4.  
The volume is multiplied by 8.
8. The surface area is multiplied by  $\frac{1}{4}$ .  
The volume is multiplied by  $\frac{1}{8}$ .

## LESSON 4-2

### Practice and Problem Solving: A/B

1. 0.28 coyote per mi<sup>2</sup>
2. 17595.3 people per km<sup>2</sup>
3. 0.58 goose per mi<sup>2</sup>
4. decrease to 0.24 coyote per mi<sup>2</sup>
5. increase to 29325.5 people per km<sup>2</sup>
6. increase to 1.3 geese per mi<sup>2</sup>
7. 1023 people per mi<sup>2</sup>

## LESSON 4-3

### Practice and Problem Solving: A/B

1. 6 feet; 6 feet; 12 feet
2. radius = 3 inches; height = 18 inches
3. All sides are 7 centimeters
4. radius = 13 inches
5. diameter = 3.4 inches; height = 5.65 inches
6. 60 feet and 120 feet
7. 4, 6,  $2\sqrt{13}$