NAME

CHAPTER

Chapter 7 Test, Form 3

For Questions 1–6, find the area of each figure. Round to the nearest tenth if necessary.

- 1. 1. ____ 0.8 cm 1.9 cm 2.4 cm 2. trapezoid: height, 1.6 mm; bases, 2.0 mm and 4.0 mm 2. **3.** triangle: base, $1\frac{3}{5}$ in.; height, $4\frac{3}{8}$ in. 3. _____ 4.____ 4. 5. 9 cm 4.5 cm 5. 23 in. 10 cm 10 cm 20 cm 6. **6.** . <u>4 m</u> 15 m 15 m 7. Find the height of a triangle with a base of 9.7 inches and an 7. _____ area of 29.1 square inches. 8. Find the circumference of a circle with radius $5\frac{2}{3}$ meters. 8. _____ Round to the nearest tenth. 9. Find the diameter of a circle if its area is 3.9 square miles. 9. _ Round to the nearest tenth. 10. _____ **10.** Find the overall height, in feet, of the solid in the drawing at the right. Then find the area of the shaded region. 11._____ **11.** Identify the solid at the right. Name the number and shapes of the faces. Then name the number of edges and vertices. 1 unit = 6 in. 12. Determine whether the statement "A pyramid has two 12.
- Assessment

Explain your reasoning.

parallel bases" is *sometimes*, *always*, or *never* true.



Chapter 7 Test, Form 3 (continued)

Find the volume of each solid. Round to the nearest tenth if necessary.



20. cone: base area, 805 mm²; slant height, 30 mm

- **21.** square pyramid: base side length, $7\frac{3}{4}$ yd; slant height, $9\frac{1}{8}$ yd
- 22. MANUFACTURING We-R-Plastic makes plastic cylindrical garbage cans for kitchens and bathrooms. How much plastic is used for a can that has a diameter of 7 inches and is 14 inches tall, not including its lid? Round to the nearest tenth.
- **23.** Determine the number of significant digits in 132.04.
- **24.** Find 150 L \div 4.5 L using the correct number of significant digits.
- **25. GEOMETRY** The sides of a triangle measure 19.05 centimeters, 12.1 centimeters, and 15.125 centimeters. Write the perimeter using the correct precision.
- **Bonus** Samuel cuts out the largest possible square from a circular paper plate that has a radius of 6 inches. Find the area of the plate that remains. Round to the nearest tenth.

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