Test, Form 3B

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

1.

36.1 mm

9 mm
19.5 mm
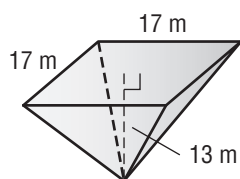
1. _____6,335_____

2.

13 m

11 m

15 m
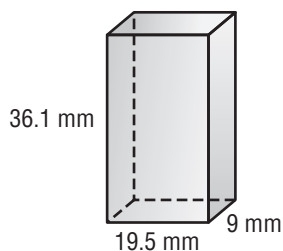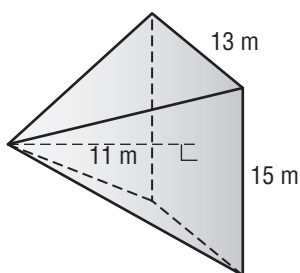
2. _____2,145_____

3. A storage shed with a flat roof is 4 yards long by 3 yards wide by $1\frac{1}{2}$ yards tall. A cubic yard is equal to 27 cubic feet. How many cubic feet of storage space does the shed enclose?

3. _____486_____

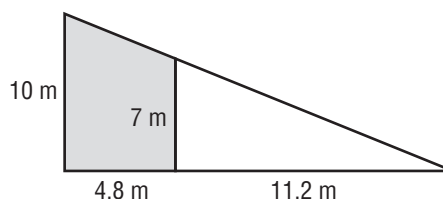**4.** Find the volume of the square pyramid.

17 m

17 m

13 m

4. _____3,757m_____

5. What is the circumference of a Ferris wheel with a radius of 22.5 ft? Use 3.14 for π. Round to the nearest tenth.

5. _____1,589.8_____

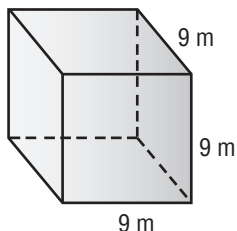**6.** Find the area of the circle. Use 3.14 for π. Round to the nearest tenth.

57 m

6. _____10,201_____

7. Find the area of the shaded region.

10 m

7 m

4.8 m   11.2 m

7. _____336m_____

Test, Form 3B *(continued)*

8. Find the surface area of the cube.

9 m

9 m

9 m

8. 486m

9. Find the volume of the pyramid.

10 ft

5 ft   6 ft
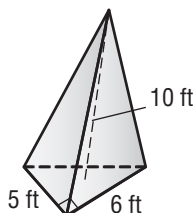
9. 300ft

10. Find the surface area of the pyramid.

9 in.

6 in.

6 in.
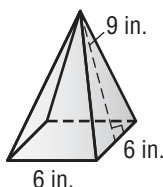
10. 21in

11. Find the volume of the composite figure.

5 m   13 m

40 m

18 m

18 m
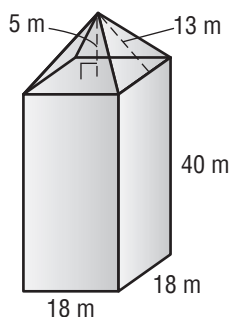
11. 13,025

12. Find the surface area of the composite figure in Exercise 11.

12. 3,528

13. A freezer is shaped like a rectangular prism. It has a length of 8 feet and a height of 3 feet. The volume is 54 cubic feet. Find the width of the freezer.

13. 2.25

14. A rectangular pyramid has a volume of 210 cubic centimeters. Find two possible sets of measurements for the base area and height of the pyramid.

14. 7,3