Test, Form 3A
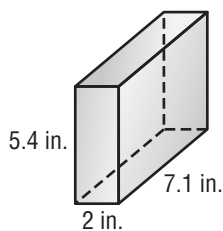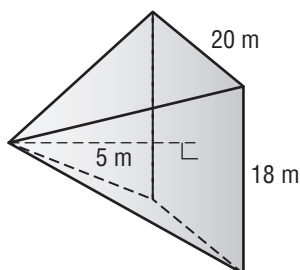
Find the volume of each figure. Round to the nearest tenth if necessary.

try to keep the rounding in mind, one place after the decimal, I marked them but didn't deduct points.

1.

5.4 in.
7.1 in.
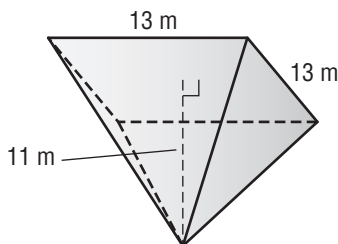2 in.

1. 76.68 in cubed

2.

20 m
5 m
18 m

2. 600 m cubed

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

3. 810 cubic feet cubed

4. What is the volume of the square pyramid? Round to the nearest tenth.
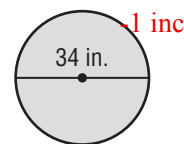

13 m
13 m
11 m

619.7
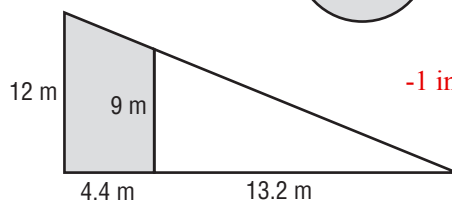
4. 619 m cubed

5. What is the circumference of a bagel with a diameter of 11.6 centimeters? Use 3.14 for π. Round to the nearest tenth.

5. 36.242 cm

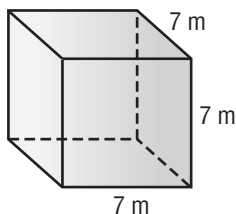**6.** Find the area of the circle. Round to the nearest tenth. Use 3.14 for π.

34 in.

-1 inc

6. 92 in

7. Find the area of the shaded region.

12 m
9 m
4.4 m
13.2 m

-1 inc

7. 40.95 m squared

Test, Form 3A   *(continued)*

8. Find the surface area of the cube.

7 m

7 m

7 m

8. _294 m squared_

9. Find the volume of the pyramid.

16 ft

4 ft

6 ft
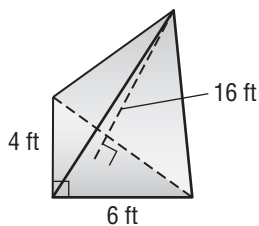
9. _64 ft cubed_

10. Find the surface area of the pyramid.

8 in.

5 in.

5 in.
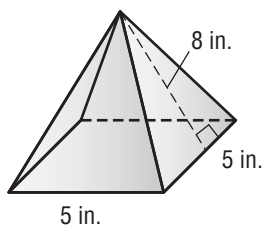
10. _105 in squared_

11. Find the volume of the composite figure.

4 m

5 m

12 m

6 m

6 m
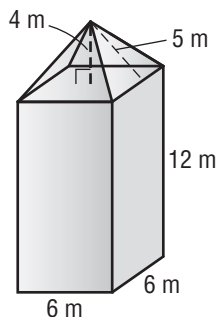
-1 inc

11. 42 m squared

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

-1 inc

12. 32 m squared

-1 inc

13. A drawer is shaped like a rectangular prism. It has a length of 17 inches and a height of 6 inches. The volume is 1,428 cubic inches. Find the width of the drawer.

13. 16 in cubed

-1 inc

14. A rectangular pyramid has a volume of 190 cubic centimeters. Find two possible sets of measurements for the base area and height of the pyramid.

14. 38x5 or 2x95

Course 2 • Chapter 8 Measure Figures