Test, Form 3A

$$\frac{38}{42}$$

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

1.

5.4 in.

7.1 in.

2 in.

1. __76.7 in__ ^{3}

2.

20 m

5 m   ⌐

18 m
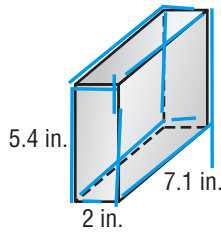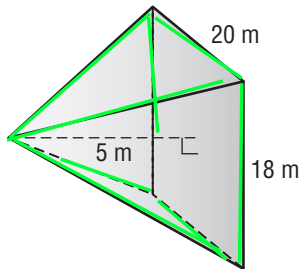
2. __600 m^3__

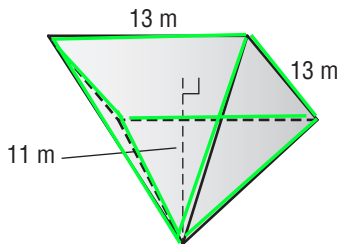**3.** A storage shed with a flat roof is 4 yards long by 3 yards wide by $2\frac{1}{2}$ yards tall. A cubic yard is equal to 27 cubic feet. How many cubic feet of storage space does the shed enclose?

3. __810 ft__ ^{2}

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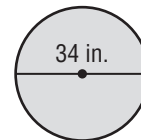

13 m

13 m

11 m

4. __619.7 m^3__

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.
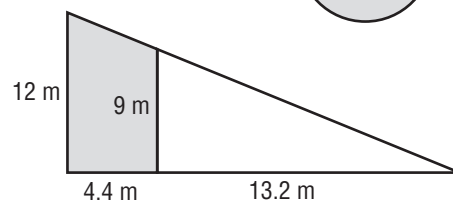
5. __36.4 cm__

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

34 in.

6. __907.5 in^2__

7. Find the area of the shaded region.

12 m

9 m

4.4 m   13.2 m

-1 no units

7. __46.2__

Test, Form 3A   *(continued)*

8. Find the surface area of the cube.

7 m

7 m

7 m
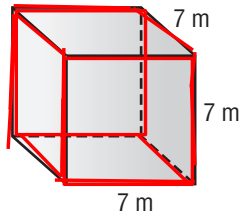
8. ___294 m^2___

9. Find the volume of the pyramid.

16 ft

4 ft

6 ft
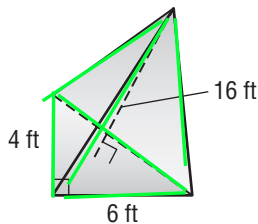
-1 inc

9. ___42.7 ft^3___

10. Find the surface area of the pyramid.

8 in.

5 in.

5 in.
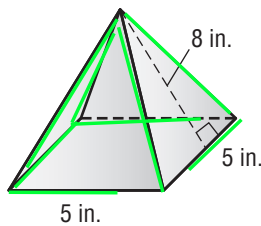
10. ___105 in^2___

11. Find the volume of the composite figure.

4 m   5 m

12 m

6 m

6 m
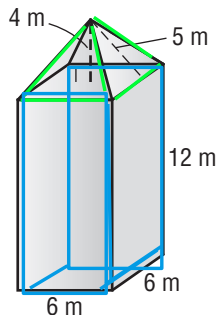
△ = 16.7

▯ = 144

11. ___480 m^3___

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

12. ___384 m^2___

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.

-1 inc, and this is a length should be no exponent

13. ___15 in^2___

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.

need base and height   -1

14. _____

Answer: The 2 possible sets of measurements are 100cm^2 90cm^2