NAME **Ms. Vickies zoom** DATE _____ PERIOD _____

Test, Form 3A

SCORE $\dfrac{41}{42}$

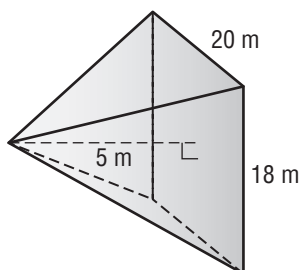**Find the volume of each figure. Round to the nearest tenth if necessary.**

1.

5.4 x 2 x 7.1 / 3

5.4 in.

7.1 in.

2 in.
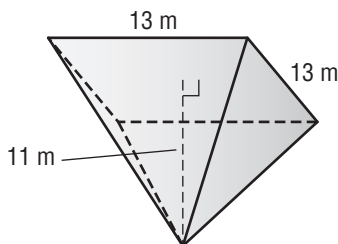
76.7 CUBIC in

1. _____

2.

20 m

20 x 5 x 18 / 6

5 m

18 m

600 CUBIC m.

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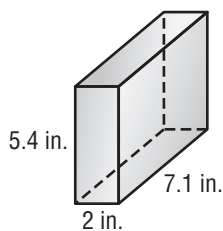
3. A storage shed with a flat roof is 4 yards long by 3 yards wide by $2\frac{1}{2}$ yards tall. A cubic yard is equal to 27 cubic feet. How many cubic feet of storage space does the shed enclose?

3. 810 CUBIC ft

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

13 m

13 m

11 m

619.7 CUBIC m

4. _____

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.
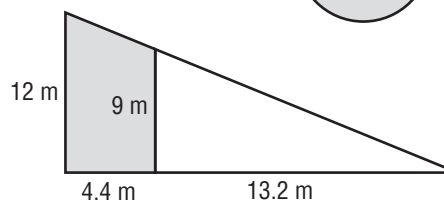
5. 36.4 cm

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

34 in.

6. 907.5 SQ in
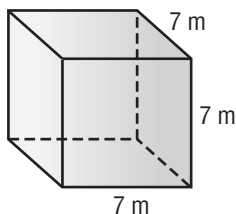
7. Find the area of the shaded region.

12 m

9 m

4.4 m   13.2 m

7. 46.2 SQ m

Test, Form 3A   (continued)

8. Find the surface area of the cube.

7 m

7 m

7 m

294 SQ m

8. _____

9. Find the volume of the pyramid.

16 ft

4 ft

6 ft

64 CUBIC ft

9. _____
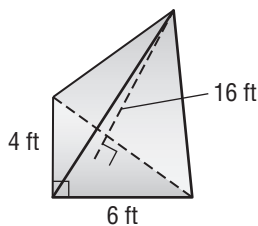
10. Find the surface area of the pyramid.

8 in.

5 in.

5 in.

105 SQ in

10. _____
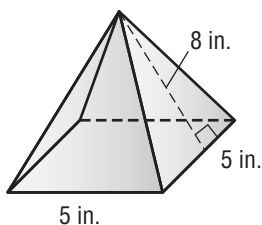
11. Find the volume of the composite figure.

4 m

5 m

12 m

6 m

6 m

480 CUBIC m

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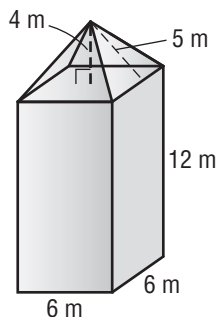
12. Find the surface area of the composite figure in Exercise 11.

384 SQ m

12. _____

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.

this one is a length not a volume

-1

13. 14 CUBIC in

Base area equals 57 SQ cm and height equals 10 cm; base

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. area equals 38 SQ cm and height equals 15 cm

Course 2 • Chapter 8 Measure Figures