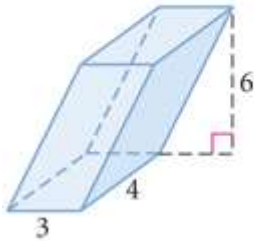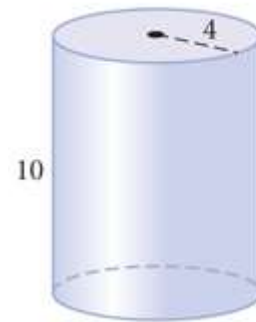# Geometry Volume/Density and Cross sections review.

Find the volume of each solid. All measurements are in inches. Round approximate answers to the nearest hundredths.
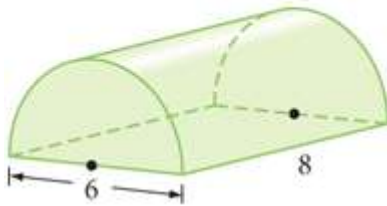
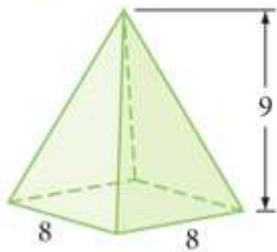1. Oblique rectangular prism

6

4

3

2. Right cylinder
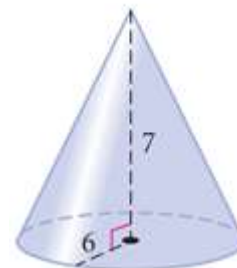
4

10

3. Right semicircular cylinder h

8

6

4. oblique cylinder

6

9

7

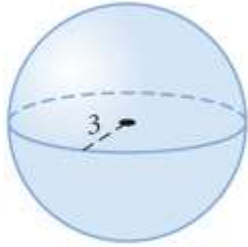5. Square pyramid

9

8

8

6. Cone

7

6

7. Triangular pyramid

6
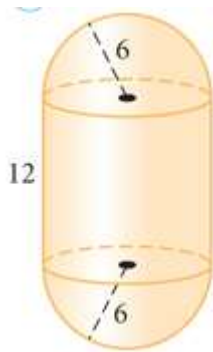
13

5
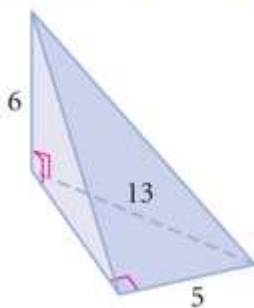
8. Semicircular cone

12

14
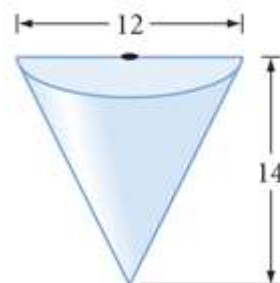
9.

10.

11.
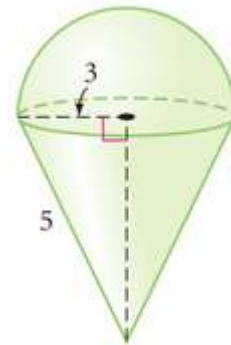

12.

13. What is the volume of a **square-based** pyramid with base side lengths of 16 meters and a height of 15 meters?

14. Ty and Jylan built a recycling bin that is 6 feet wide, 12 feet long, and 14 feet high. How much trash can fit inside of the bin?

15. The cylindrical canister of a fire extinguisher has a volume of 603.19 in³ and a radius of 4 inches. How many high is the cylinder?

16. A soup can holds 2671.92 cm³ of soup. If the can has a height of 10.5 cm, what is the radius of the can?

17. A rectangular swimming pool can hold 4500 feet³ of water. If the pool is 25 ft. long and 20 ft. wide, how deep is the pool?

18. Anthony's is building a sand box that can old 3456 in³. If he has space for 72 inches wide, 36 inches long in his backyard, how high does he have to build the sides?

19. The volume of this right triangular prism is 1440 cm^3 . Find the height of the prism.
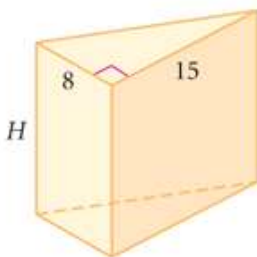
20. Renee was curious so she cut open the top of her basketball. She decided to fill it with rice. She learned it will hold 3648.37 in³of rice. What is the diameter of the basketball?