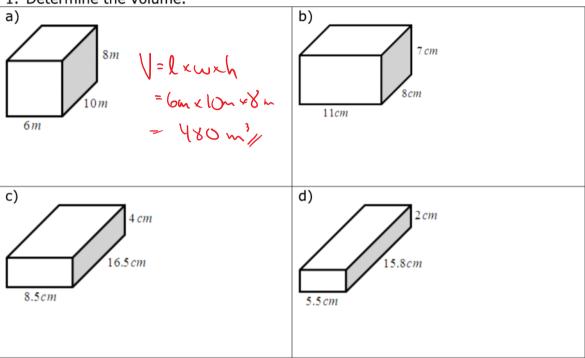
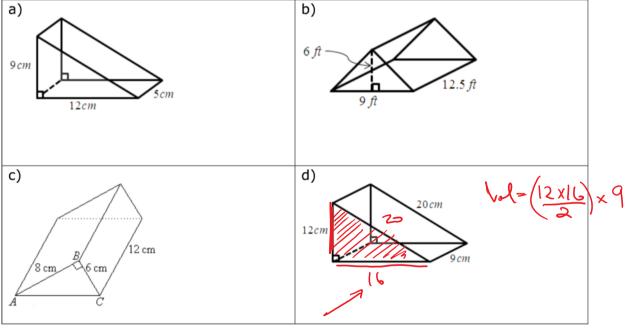
#### Math 8

# **Chapter 7 Review**

# 1. Determine the volume.

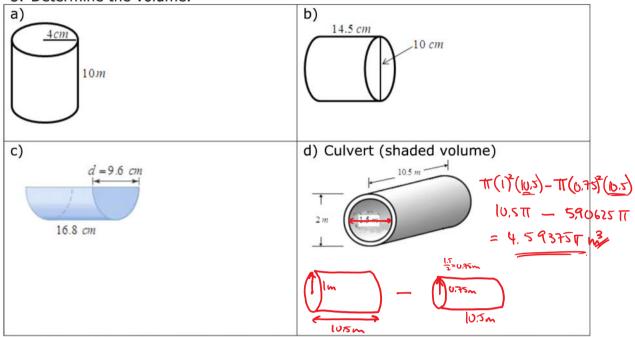


# 2. Determine the volume.

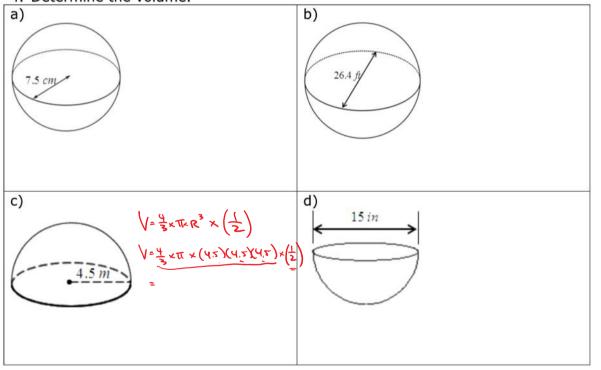


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# 3. Determine the volume.

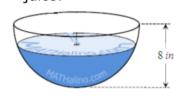


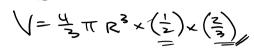
# 4. Determine the volume.



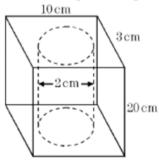
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5. A 8 inch spherical bowl has juice that is 2/3 full. What's the volume of the juice?

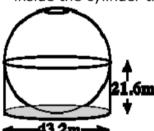




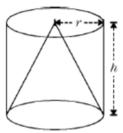
6. A cylinder is cut from rectangular prism as shown. What is the volume of the remaining rectangular prism?



7. Half a sphere is inside a cylinder as shown. What is the remaining volume inside the cylinder that is not occupied by the sphere?



8. A cone with radius r=5 cm and height h=10 cm just fits inside a cylinder with the same radius and height. What is the volume in the cylinder that is not occupied by the cone?

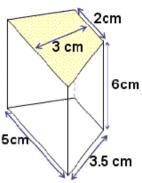


9. A prism has volume of  $4576\ cm^3$  and a base area of  $352\ cm^2$  , find the height of the prism.

10. A rectangular pool has a volume  $1620 \, m^3$  , the width measures 9 m and the length is 15 m. How deep is it?

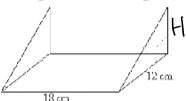
11. A cylindrical volume is  $5664.7\ cm^3$  and it has a base area  $306.2\ cm^2$ . Determine the height of the cylinder.

12. Find the volume of the trapezoidal prism.



A square base rectangular box can hold 3197.4 cm<sup>3</sup> of material with the height measuring 15 cm. Find length of the sides of the base.

14. The volume of the triangular prism shown below is  $972 cm^3$ . Determine the height of the triangle.



$$\frac{H \times 12}{2} \times 18 = 972$$

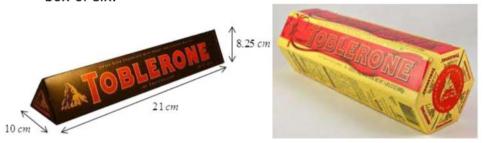
$$\frac{H \times 12}{2} \times 18 = 972$$

$$H \times 6 \times 18 = 972$$

$$H = 972$$

$$18 \times 6$$

15. Six Toblerone chocolate bars are put together to form a hexagonal prism. The dimensions of a single bar are given below. Determine the volume of a box of six.

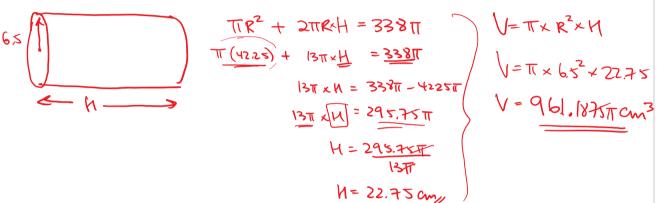


16. A side of an equilateral triangular sandbox measures 3 ft in length and 2 ft deep. If the box is 90% filled with sand, then what is the volume of sand?

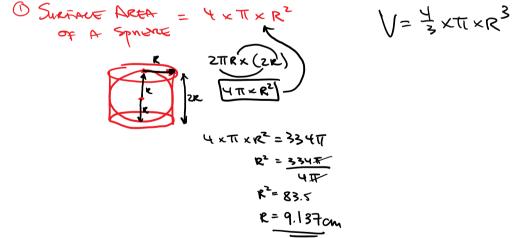


17. If the surface area of a cube  $is150\,cm^2$ , then determine the volume of the cube.

18. If the surface area of a cylinder is  $338\pi cm^2$  with a radius of 6.5 cm, then find the volume of the cylinder.



19. If the surface area of a sphere is  $334\pi\,cm^2$ , then determine the volume of the sphere.



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