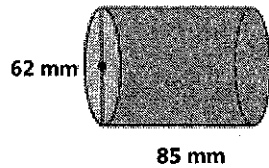


Homework: Volume of Solids EOCT Review

1. Find the **volume** of the cylinder to the nearest tenth.

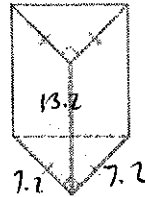
- A. 1,026,484.0 mm²
- B. 256,621.0 mm²
- C. 85,540.3 mm²
- D. 5,270 mm²



$\pi(37)^2$

2. A triangular prism has an isosceles right triangle as a base. Each leg of the base is 7.2 cm long and the height of the prism is 13.2 cm. Find the **volume of the prism**.

- A. 342.1 cm²
- B. 646.8 cm²
- C. ~~242.1~~ cm³ 684.3 cm³
- D. ~~646.8~~ cm³ 228.1 cm³



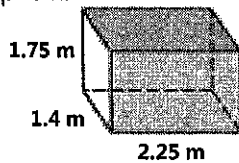
3. What is the **volume** of a sphere with diameter of 25 cm? Round to the nearest tenth.

- A. 7248.3 cm³
- B. 8181.2 cm³
- C. 828.9 cm³
- D. 4601.9 cm³



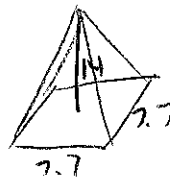
4. Find the **volume** of the prism.

- A. 5.51 m³
- B. 6.30 m³
- C. 14.18 m³
- D. 12.78 m³



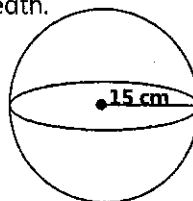
5. Find the **volume** of a regular pyramid with a square base if the height is 14 cm and a side of the base is 7.7 cm. Round to the nearest tenth.

- A. 304.6 cm³
- B. 138.4 cm³
- C. 71.9 cm³
- D. 276.7 cm³



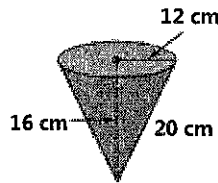
6. Find the **volume** of the sphere. Round to the nearest hundredth.

- A. 2827.43 cm³
- B. 7952.16 cm³
- C. 10,602.88 cm³
- D. 14,137.17 cm³



7. Find the **volume** of the cone.

- A. 7238.2 cm³
- B. 201.1 cm³
- C. 2412.7 cm³
- D. 1206.4 cm³



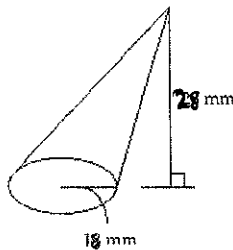
8. Find the **height** of a cone if the volume is 5.6 m³ and the radius is 1.6 m. Round to the nearest tenth.

- A. 2.1 m
- B. 4.4 m
- C. 2.3 m
- D. 4.2 m

$$5.6 = \frac{1}{3} \pi (1.6)^2 \cdot h$$

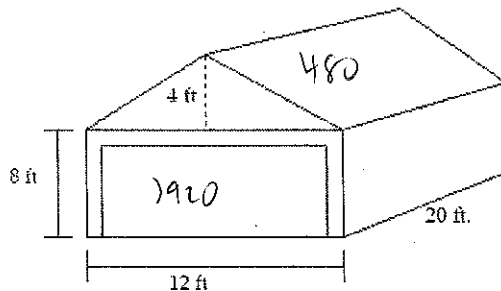
9. Find the **volume** of the cone. Round your answer to the nearest whole number.

- A. 528 mm³
- B. 29,870 mm³
- C. 9,500 mm³
- D. 28,512 mm³



10. Find the total **volume** of the garage. Round to the nearest whole number.

- A. 2,880 ft.³
- B. 2,400 ft.³
- C. 2,240 ft.³
- D. 1,920 ft.³



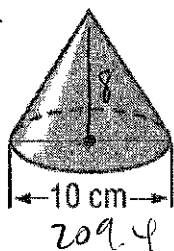
11. The width of a piece of paper is 8.5 in., the length is 11 in., and the thickness is 0.0035 inches. There are 2600 sheets sitting in a cabinet by the copy machine. What is the volume occupied by the paper?

Round to the nearest tenth.

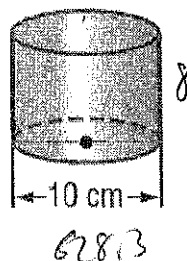
- A. 8.5 in.³
- B. 1,365.0 in.³
- C. 177.5 in.³
- D. 850.9 in.³

12. If each of the following solids has a height of 8 cm, which has the greatest volume?

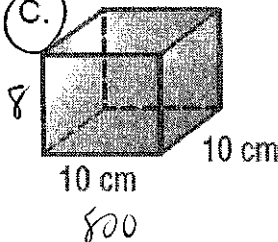
A.



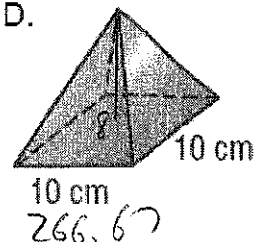
B.



C.



D.



13. A

$$\frac{50 \text{ trees}}{10 \text{ trees}} \cdot \frac{1000 \text{ ft}^2}{1 \text{ acre}} = 43,560 \text{ ft}^2$$