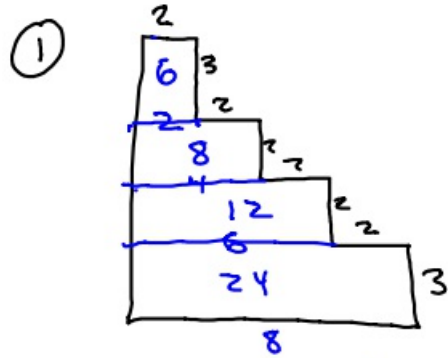
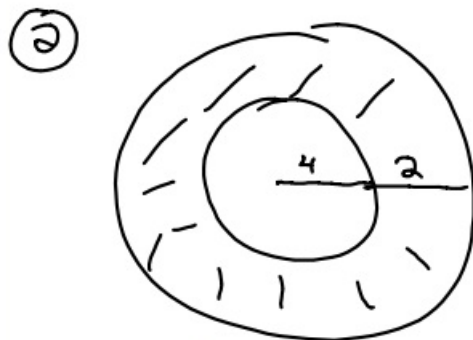


2-12-19 5th Geo



$$24 + 12 + 8 + 6 = 50 \text{ cm}^2$$



whole - hole

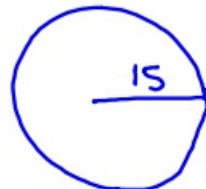
$$\pi \cdot 6^2 - \pi \cdot 4^2$$
$$36\pi - 16\pi$$
$$20\pi$$
$$\approx 62.8 \text{ cm}^2$$

- ③ What is the volume of a pyramid with a square base of 8 cm and a height of 3 cm?

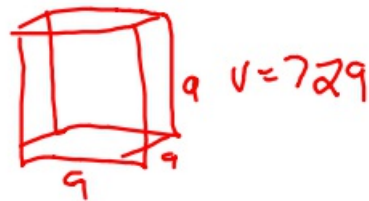
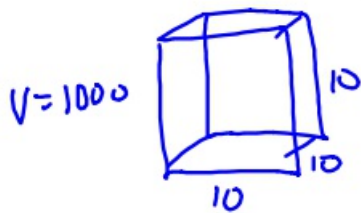


$$V = \frac{1}{3} \cdot B \cdot h$$
$$= \frac{1}{3} \cdot (8 \cdot 8) \cdot 3$$
$$= 64 \text{ cm}^3$$

- ④ A dog is tied to a rope that is 15 feet. How much room does it have to run around in?

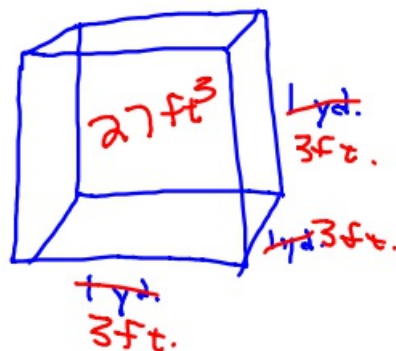

$$\pi \cdot 15^2$$
$$225\pi$$
$$706.9 \text{ ft}^2$$

- ⑤ How much volume is left in a 10 cm cube if a 9 cm cube is placed inside it?

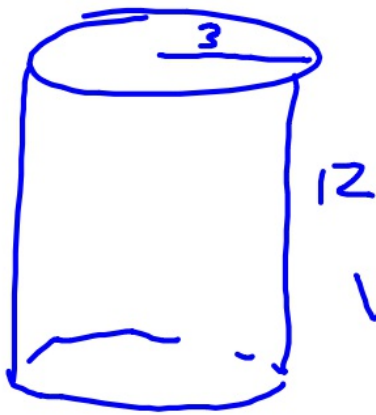


$$1000 - 729$$
$$271 \text{ cm}^3$$

- ⑥ How many cubic feet are in a cubic yard?



- ⑦ How much room is left inside a cylinder that has a radius of 3 cm and height of 12 cm if 2 balls each with a radius of 3 cm are placed inside the cylinder?

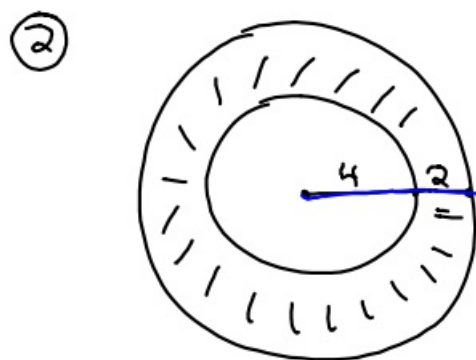
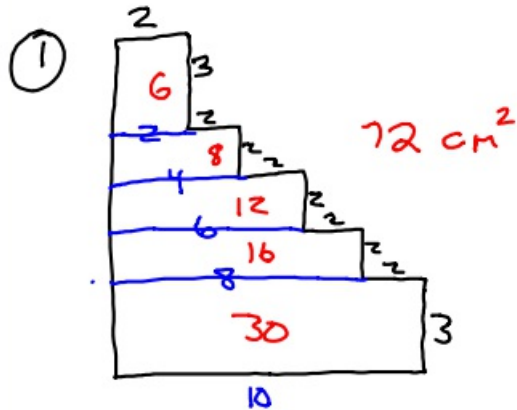


$$\begin{aligned}V &= \pi r^2 \cdot h \\&= \pi \cdot 3^2 \cdot 12 \\&= 108\pi \\&\quad - 72\pi \\ \hline &= 36\pi\end{aligned}$$



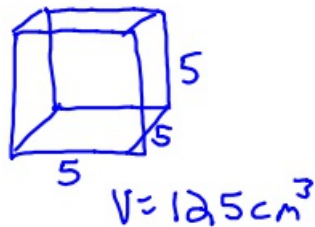
$$\begin{aligned}V &= \frac{4}{3}\pi r^3 \\&= \frac{4}{3} \cdot \pi \cdot 3^3 \\&= 36\pi \\&\quad \times 2 \\ \hline &= 72\pi\end{aligned}$$

2-12-19 6th Geo



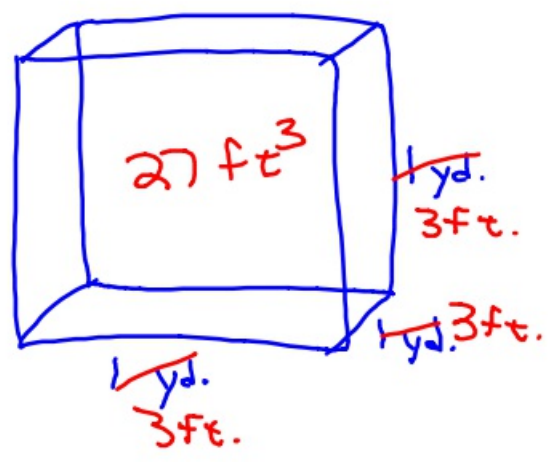
$$\begin{aligned} & \pi \cdot 6^2 - \pi \cdot 4^2 \\ & 36\pi - 16\pi \\ & 20\pi \\ & \approx 62.8 \text{ cm}^2 \end{aligned}$$

- ③ How much volume is left in a 5cm cube when a 4cm cube is placed inside it?

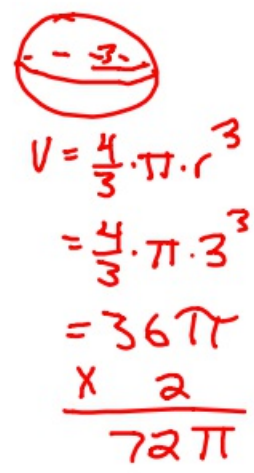
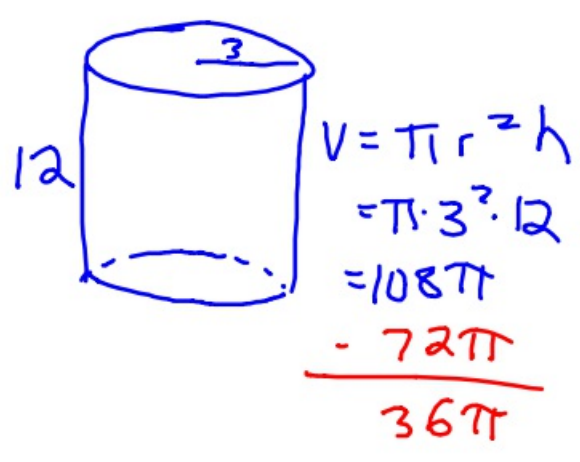


$$125 - 64 = 61 \text{ cm}^3$$

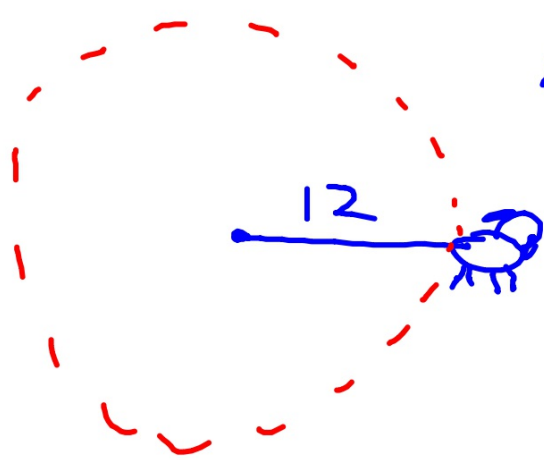
④ How many cubic feet are in a cubic yard?



⑤ A cylinder has a radius of 3 cm and a height of 12 cm. How much room is left inside it if you put 2 spheres each with a radius of 3 cm?



- ⑥ A dog is tied to a 12 ft. rope. How much area does it have to run?



$$A = \pi r^2$$

$$\pi \cdot 12^2$$

$$144\pi$$

$$\approx 452.4 \text{ ft}^2$$