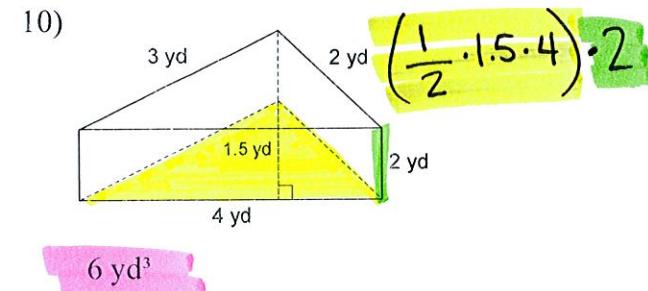
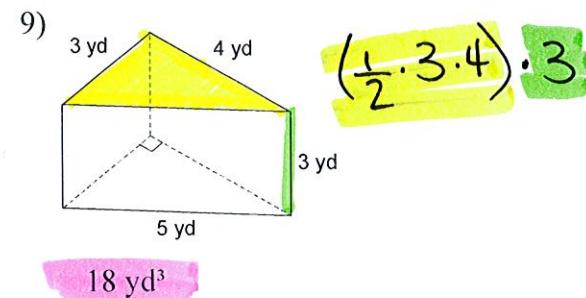
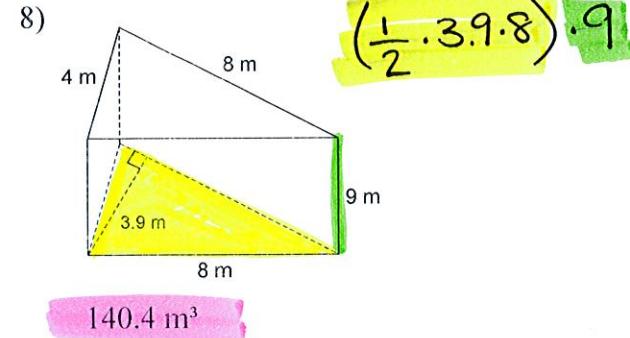
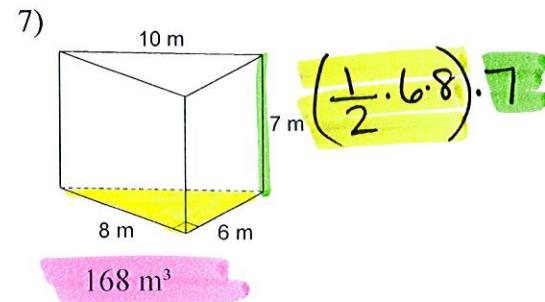
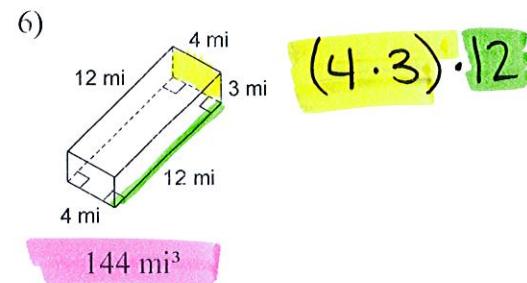
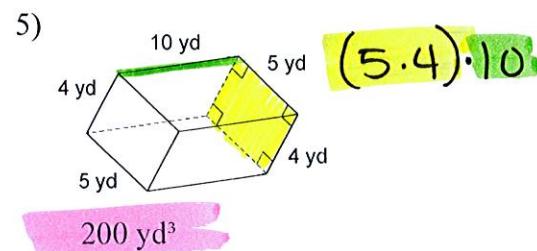
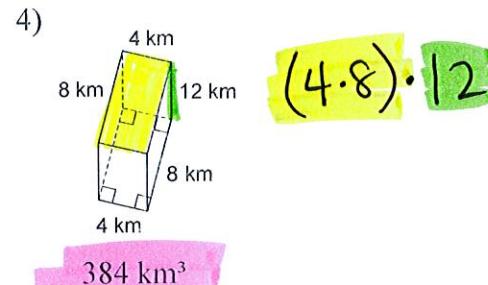
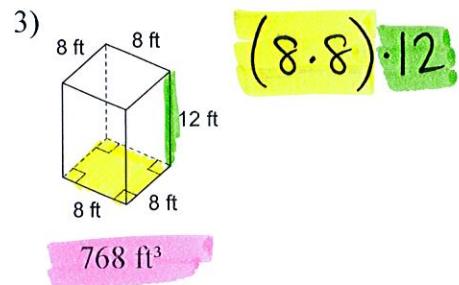
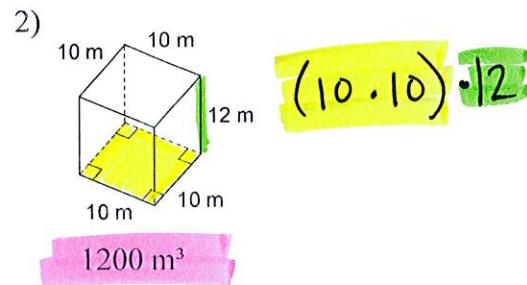
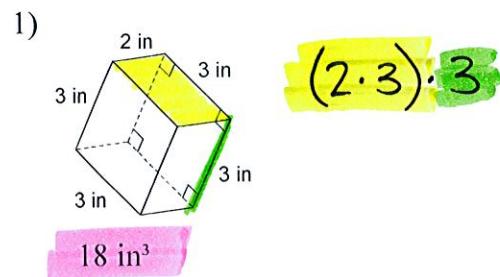
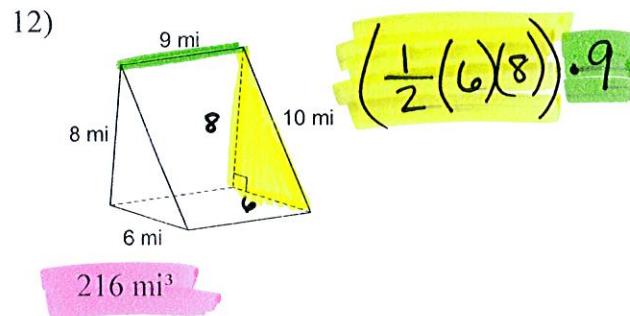
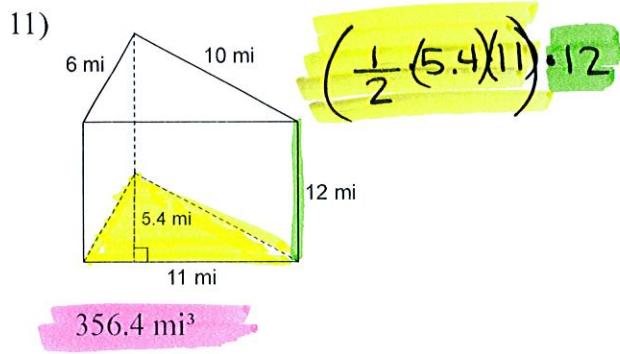


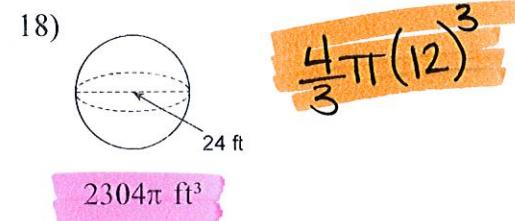
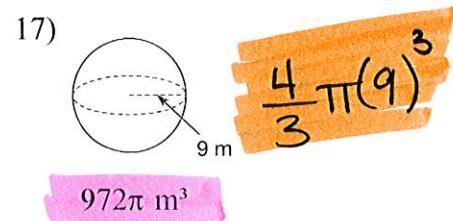
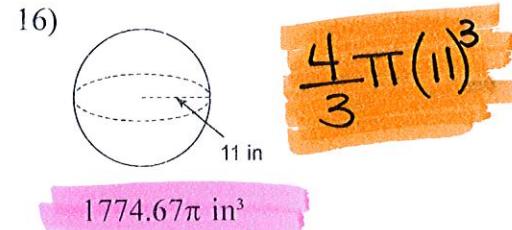
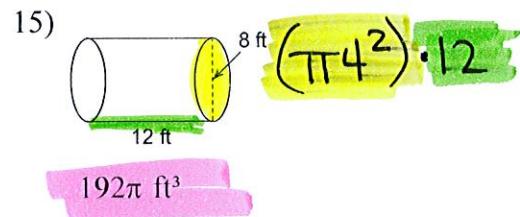
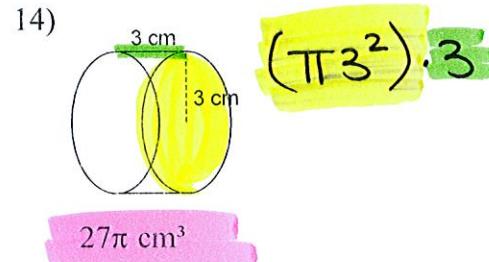
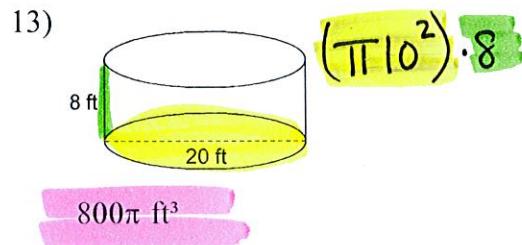
## 5.5 - Volume of Prisms, Cylinders &amp; Spheres

Find the volume of each figure. Round your answers to the nearest tenth, if necessary.





Find the volume of each figure. Leave your answers in terms of  $\pi$ .



- 19) A rectangular prism measuring 8 in and 5 in along the base and 10 in tall.

$400 \text{ in}^3$

$$(8 \cdot 5) \cdot 10$$

- 21) A cylinder with a diameter of 4 yd and a height of 10 yd.  $r=2$

$40\pi \text{ yd}^3$

$$(\pi 2^2) \cdot 10$$

- 20) A prism 2 mi tall with a right triangle for a base with side lengths 3 mi, 4 mi, and 5 mi.

$12 \text{ mi}^3$

$$\left(\frac{1}{2} \cdot 3 \cdot 4\right) \cdot 2$$

- 22) A sphere with a radius of 9 cm.

$972\pi \text{ cm}^3$

$$\frac{4}{3}\pi(9)^3$$