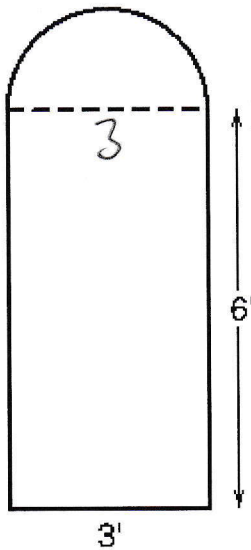


SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 3) At \$2.05 per foot, what will be the cost of the molding around the window shown? Do not compute for the bottom edge. 3) _____

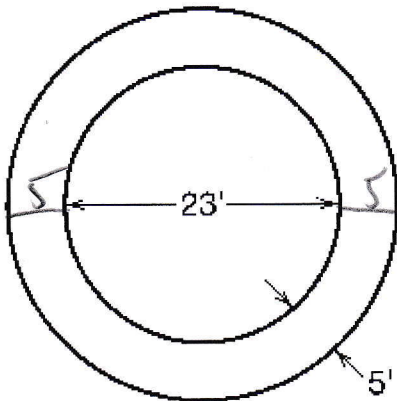


$$\frac{1}{2} \pi (3) + 12$$

$$(3\pi + 12)(2.05)$$

$$\boxed{\$43.92}$$

- 4) If a circular pool with a diameter of 23 feet is enclosed by a wooden deck that is 5 feet wide, what is the area of the deck? Round to the nearest tenth. 4) _____



$$r = \frac{23}{2} = 11.5$$

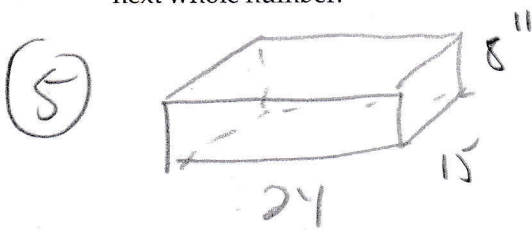
$$R = \frac{33}{2} = 16.5$$

$$\pi (16.5)^2 - \pi (11.5)^2$$

$$\boxed{439.8 \text{ sq. ft}}$$

- 5) How many cubic yards of concrete are needed to pour a concrete slab 24 feet long, 14 feet wide and 8 inches thick? Round to the nearest tenth. 5) _____

- 6) A 7-foot hole is dug that measures 26 feet by 26 feet. If a truck with a capacity of 6 cubic yards is used to haul away the dirt, how many trips must the truck make? Round up to the next whole number. 6) _____

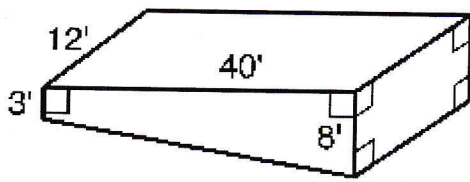


$$\frac{1 \text{ cu yd}}{27 \text{ cu ft}} \quad \frac{24(14) \frac{8}{12}}{27} \quad \frac{240}{27}$$

$$\boxed{9 \text{ cu yd}}$$

$$7(26)(26) = \frac{4732 \text{ cu ft}}{27} \quad \frac{175.3 \text{ cu yd}}{6} \quad 29.2 \rightarrow \boxed{30 \text{ trips}}$$

- 7) Calculate the gallons of water needed to fill this swimming pool. Round to the nearest gallon. One cu. ft of water contains 7.5 gallons



Trapezoidal Prism
 $\frac{1}{2}(8+12)(40)(3)$
 $11(40)(6)$

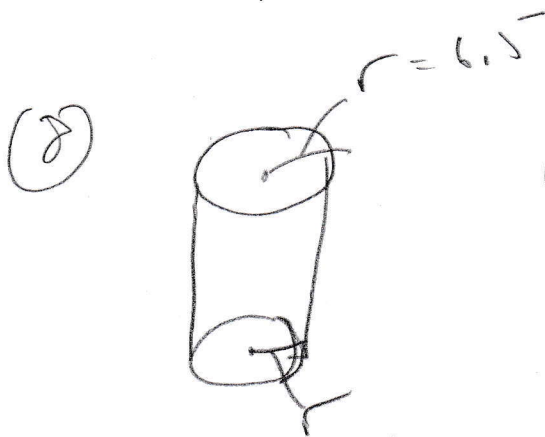
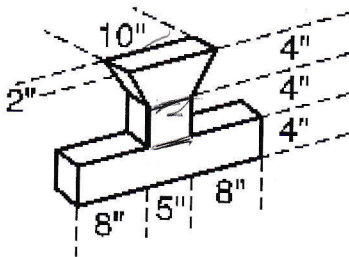
2640 cu ft
 $\times 7.5$
 $\boxed{19800}$

- 8) A cylindrical tank has a capacity of 14,892 gallons. If it has a radius of 6.5 feet, what is the height of the tank? Round to the nearest foot.

8) _____

- 9) Find the weight of the piece of steel pictured. Steel weighs 0.2833 pounds per cubic inch. Round to the nearest hundredth.

9) _____



$(\pi(6.5)^2 h) 7.5 = 14892$
 $132.7 h = 1489.64$

$h \approx 11 \text{ feet}$

(9) Trapezoidal Prism
 Rect. Prism

$\frac{1}{2}(10+5)4(2) = 60$
 $5(4)2 = 40$
 $21(4)2 = 168$
 $\frac{168}{268 \text{ cu in}}$
 $\times 0.2833$

$\boxed{75.92}$