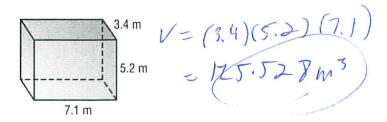
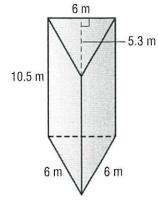
Chapter 10 Practice Test

Find the volume of each prism

1.



2.



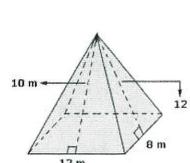
V== (6)(5.3)(1015)

Find the surface area of each figure

2 cm

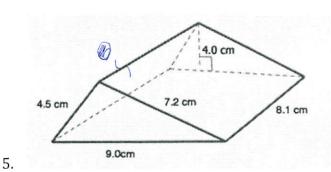
3.

4.



3 cm

 $2\left[\frac{1}{2}(J_{2})(J_{0})\right] = 120$ $2\left[\frac{1}{2}(8)(J_{2})\right] = 96$ $12m (J_{2})(8) = 96$ $312 m^{2}$



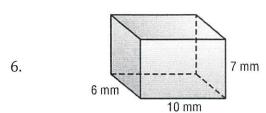
$$(4.5)(8.1) = 36.45$$

$$(7.2)(8.1) = 57.32$$

$$(9.0)(8.1) \sim 72.90$$

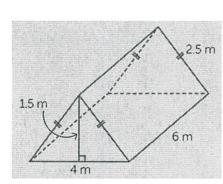
$$2\left(\frac{1}{2}(9)(4)\right) = 36$$

$$203.67 \text{ cm}^2$$



$$2(6)(10) = 120$$

 $2(6)(7) = 84$
 $2(7)(10) = 140$
 344 mm^2



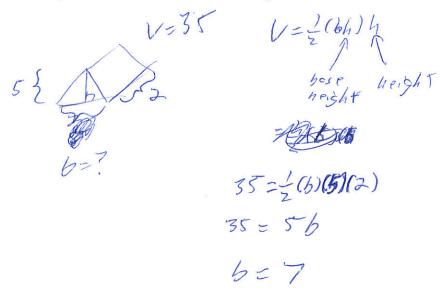
7.

$$2.5 \text{ m} = 2 \left(\frac{4}{2}, \frac{5}{5} \right) \left(\frac{6}{5} \right) = \frac{6}{30}$$

$$= \frac{2}{5} \left(\frac{2}{5}, \frac{5}{5} \right) \left(\frac{6}{5} \right) = \frac{3}{2} \frac{4}{9}$$

$$= \frac{6}{30} \left(\frac{4}{5} \right) \left(\frac{6}{5} \right) = \frac{2}{3} \frac{4}{9}$$

8. A gift box in the shape of a triangular prism has a volume of 35 cubic inches, a base height of 5 inches, and a height of 2 inches. What is the length of the base?



9. A special box designed to hold an antique artifact is shaped like a triangular prism. The surface area of the box is 121.2 square inches. The height of the base triangle is 5.2 inches and each side of the base triangle is 6 inches long. What is the height of box? (3 points)

$$S.A = 121.2$$
 $\frac{895es}{2[-(6)(5.2)]} = 6 \times 5.2 = 31.2$
 $2[-(6)(5.2)] = 6 \times 5.2 = 31.2$
 $3[-(6)(5.2)] = 6 \times 5.2 = 31.2$
 $3[-(6)(6.2)] = 6 \times 5.2 = 31.2$
 $3[-(6)($

10. A room is 15 feet long, 25 feet wide, and 20 feet tall. If Mickey paints the walls and the ceiling, how much surface area will he cover?

2(20)(35) = 600 2(20)(15) = 600 125)(15) = 345 1976 1976 1976 1976 1976

11. A pyramid has all sides that are equilateral triangles. Each triangle has side lengths of 8 centimeters. If the surface area of the pyramid is 67.2 square centimeters, what is the slant height of the pyramid?

(3 points)

7 8

3/8

4 equaliteral triougles

5.A = 4 / 2 6h]

67.2 = (2)(8)(l)

(m)