

Geometry 1.7

*8th grade standard

Identify and name 3-D figures

Find surface area and volume*

surface area

volume

formulas

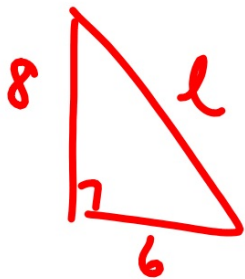
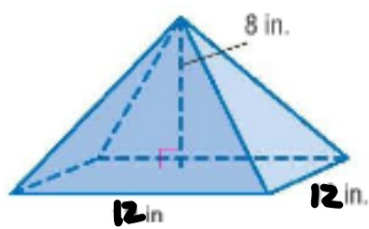
whiteboards

Quiz today 1.5-1.6

Quiz tomorrow 1.7

whiteboards

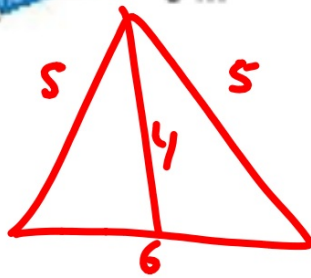
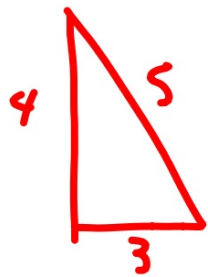
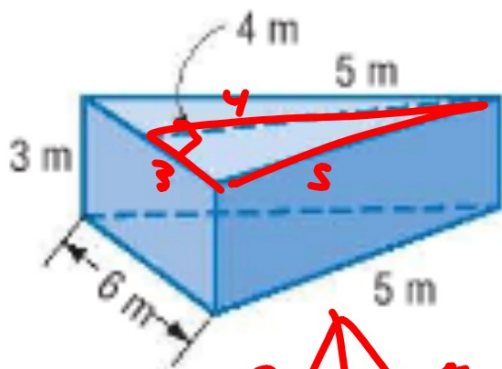
39.



$$SA = \frac{1}{2} p \cdot l$$
$$= 384 \text{ in}^2$$

$$V = \frac{1}{3} B \cdot h$$
$$= 384 \text{ in}^3$$

41.



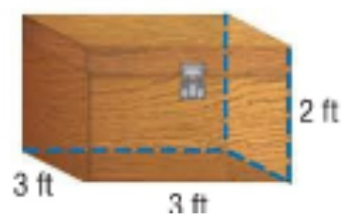
$$SA = p \cdot h + 2B$$

$$= 72 \text{ m}^2$$

$$V = B \cdot h$$

$$36 \text{ m}^3$$

42. **BUILDING** Chris is building a trunk like the one shown below. His design is a square prism. What is the volume of the trunk?



WB L7 Sk + pr.

One picture is worth 1000 words...

43. **HOCKEY** A regulation hockey puck is a cylinder made of vulcanized rubber 1 inch thick and 3 inches in diameter. Find the surface area and volume of a hockey puck.

Answer key for SA & V WS

1. 1196.2 ft^2
2. 951.51 m^2
3. 6859 yd^3
4. 1087.79 m^3
10. 2340 cm^3
14. 125.62 ft^2

11. $10,718 \text{ m}^2$
 $55,545 \text{ m}$
12. 61037.64 cm^2
 $980,553.9 \text{ cm}^3$
13. 72659.6 m^2
 $1,499,114.5 \text{ m}^3$
(175)
15. 113.04 yd^2
 113.04 yd^3

6. A circle $r = 6\text{ cm}$
 $C = ?$ $A = ?$

