

# Unit 8 Bare Necessities - Geometry

## Surface Area

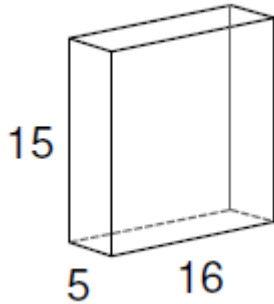


1. Find the area of the different shapes that make up the 3D figure.
2. Add the areas of all faces
3. Be sure to include a label of squared units!

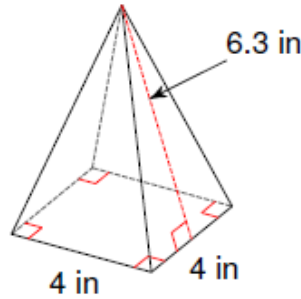
\*\*Surface area of a sphere has a special formula  $SA = 4\pi r^2$

### All Together!!

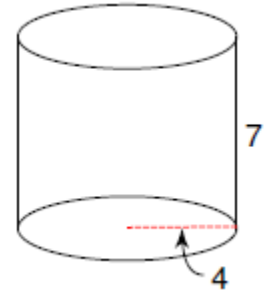
EX1.



EX2.

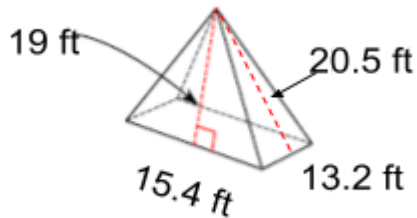


EX3.

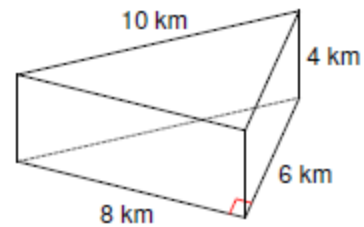


### You Try!!

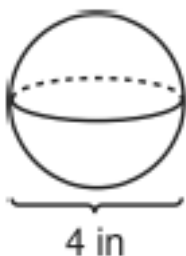
1.



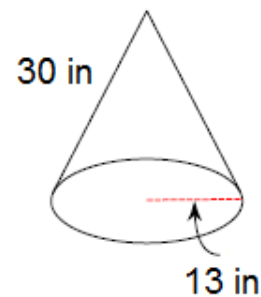
2.



3.



4.



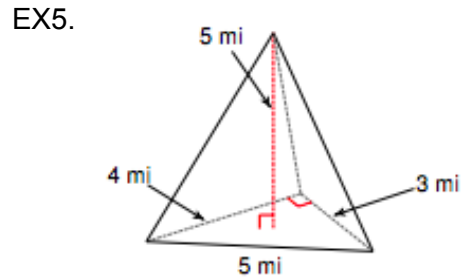
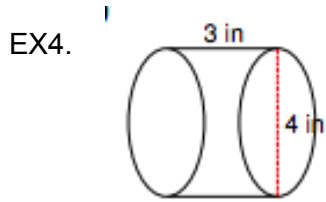
# Volume

1. Find the area of the base
2. Multiply by the height
3. Be sure to a label of cubed units!

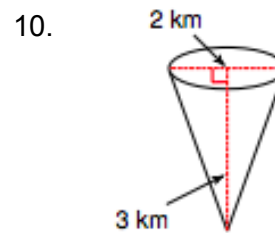
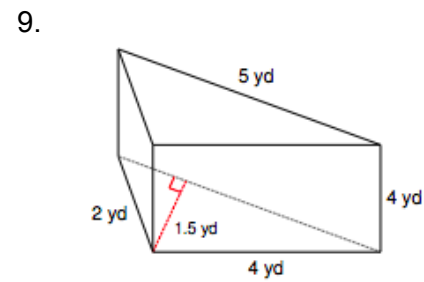
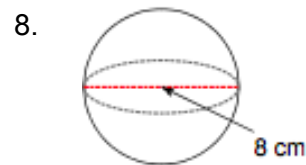
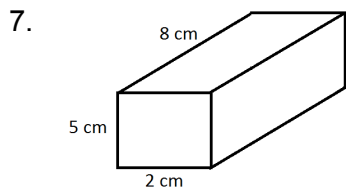
\*\* The volume of cones and pyramids must be divided by 3 (same as multiplied by  $\frac{1}{3}$ )

\*\* Volume of a sphere has a special formula  $V = \frac{4}{3}\pi r^3$

## All Together!!



## You Try!!

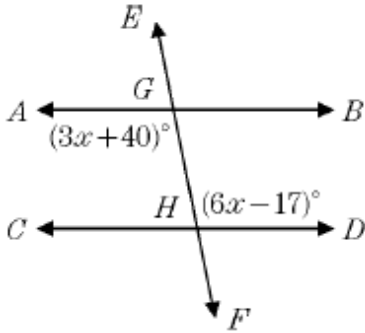


# Parallel Line Relationships

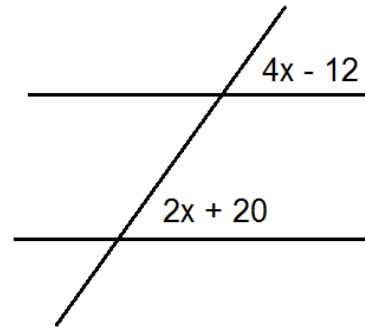
1. Identify the type of angles
2. Decide if they are congruent or supplementary
3. Solve the equation

## All Together!!

EX6.

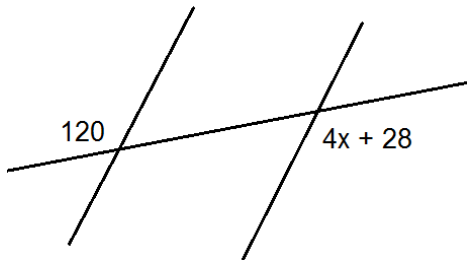


EX7.

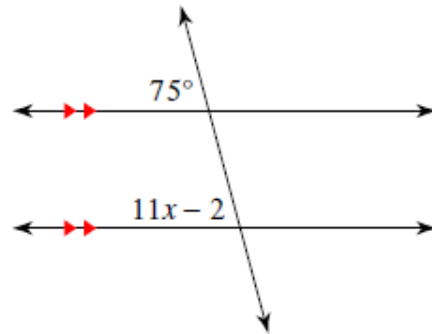


## You Try!!

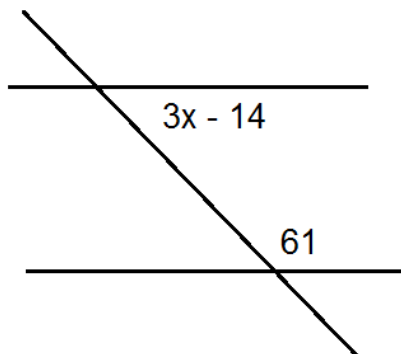
11.



12.



13.

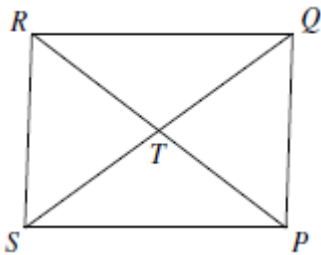


## Parallelograms & Properties

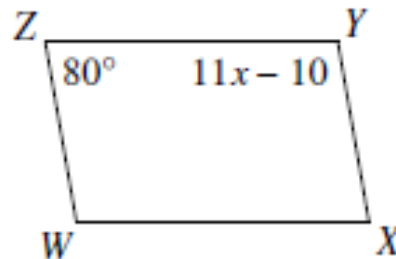
- Opposite sides are congruent
- Opposite angles are congruent
- Consecutive angles are supplementary
- Diagonals bisect each other

### All Together!!

EX 8. Find  $x$  given  $RP = 48$  and  $RT = 3x - 5$

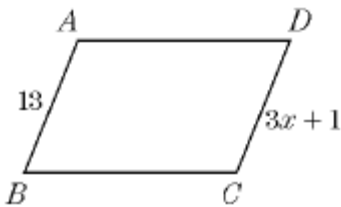


EX 9. Solve for  $x$

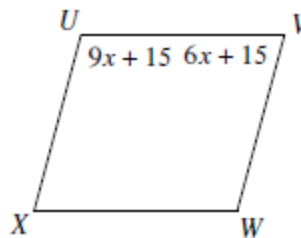


### You Try!!

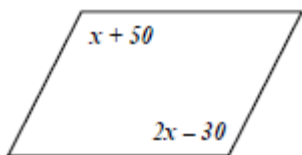
14. Solve for  $x$ .



15. Find the  $m \angle U$



16. Solve for  $x$ .



17. Solve for  $TE$  given  $TE = 4 + 2x$  and  $EV = 4x - 4$

