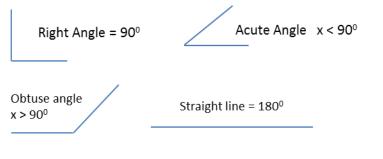
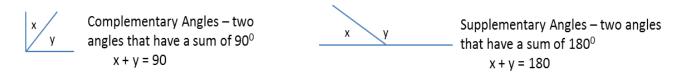
Geometry

Lesson One - Classifying Angles:



Complementary/ Supplementary Angles:



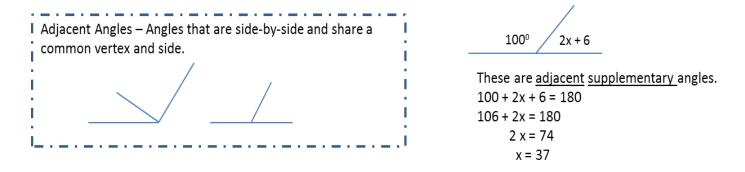
LearnZillion video: <u>https://learnzillion.com/lessons/2757-write-and-solve-equations-using-</u> <u>complementary-and-supplementary-angles</u>

Try It Out:

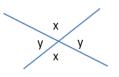
Name the angles (complementary or supplementary) and find the missing angle measure.



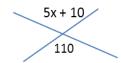
Vertical/ Adjacent Angles:



Vertical Angles – Angles that share a vertex, and are opposite sides from each other. Vertical angles are equal.

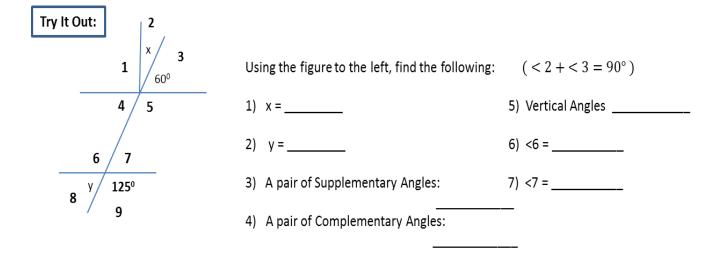


Angles x are vertical and equal. Angles y are vertical and equal.



These are vertical angles, so they are equal. You can solve for x by setting them equal to each other. 5x + 10 = 1105x = 100

x = 20



Lesson Two – Perimeter, Circumference, and Area:

LearnZillion video: https://learnzillion.com/lessons/818-find-the-circumference-of-a-circle

LearnZillion video: https://learnzillion.com/lessons/3742

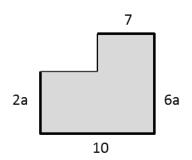
LearnZillion video: https://learnzillion.com/lessons/819-find-the-area-of-a-circle

LearnZillion video: https://learnzillion.com/lessons/818-find-the-circumference-of-a-circle

Find the area of irregular figures/ YouTube video:

https://www.youtube.com/watch?v=461qf7N7Qbg

Try It Out:



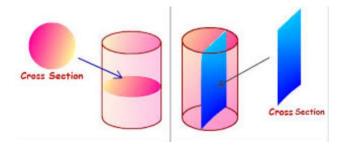
- 1) Find the two missing side lengths.
- 2) Write an expression for the perimeter (simplify it).
- 3) What is the perimeter if a = 2?
- 4) Write an expression for the area (simplify it).
- 5) What is the area if a = 2?

Practice – Finding area, circumference, and perimeter of geometric shapes:

http://www.aaamath.com/geo.htm

Lesson Three – Cross Sections:

Cross section – When a three-dimensional figure and a plane intersect, the intersection is called a cross section.



YouTube video: <u>https://www.youtube.com/watch?v=775qZ8NqidI</u>

Practice – Cross Sections: <u>http://www.ixl.com/math/geometry/cross-sections-of-three-</u> <u>dimensional-figures</u>

Lesson Four – Volume and Surface Area

Volume of Prisms Video: <u>http://www.mathplayground.com/mv_volume_prisms.html</u>

Surface Area of Prisms Video: <u>https://learnzillion.com/lessons/1222-find-surface-area-of-</u> rectangular-prisms

Practice – Finding volume and surface area of 3D figures: http://www.onlinemathlearning.com/volume-games.html

Additional Resources:

**Parent Guide: <u>http://www.hallco.org/boe/site/wp-content/uploads/2014/03/Parent-Unit-5-</u> <u>Guide-for-7th-Grade-Math.doc</u>

****GA Virtual Learning** (please go to the link, and click on "Geometric Shapes," "Three Dimensional Cross Sections," and "Geometric Angles and Shapes"): http://www.gavirtuallearning.org/Resources/SharedMS7thMath.aspx