

Math Journal - Chapter 7 - Plane Geometry

- 7.01 The Math6.org extension for this lesson (7.1) will show you how to create points using Microsoft Word. This skill will teach you advanced Word techniques including; formatting auto shapes and text boxes, creating invisible text boxes, advanced layout techniques and grouping objects. You should complete that activity **or** Create a Poster - Draw a set of intersecting lines, then label 5 points. Record 2 lines, 2 line segments, 4 rays and name the plane.
- 7.02 Create a poem or simple saying that will help your classmates to remember acute, right, obtuse and straight.
- 7.03 Write a mystery narrative that brings the reader to the compute the measure of an unknown complementary or supplementary angle.
- 7.04 The Math6.org extension for this lesson (7.4) will show you how to create lines and rays using Microsoft Word. This skill will teach you advanced Word techniques including; formatting auto shapes and text boxes, creating invisible text boxes, advanced layout techniques and grouping objects. You should complete that activity **or** Draw and label intersecting, parallel and perpendicular line sets. Write a short description (as a caption) for each drawing.
- 7.05 Draw an example of each of the 6 types of triangles. Write a short caption explaining why the triangle meets the conditions of the classification.
- 7.06 Hold a quadrilateral beauty pageant. Draw an example of each of the special quadrilaterals and have 15 of your friends judge the show. Graph your results please.
- 7.07 Use a protractor and a ruler to draw "perfect" examples of a regular triangle (60°), a square (90°), a hexagon (120°). If you dare to try a pentagon (108°), I will be impressed.
- 7.08 Create your own geometric pattern with a multiple choice answer. *Make sure your foils are reasonable choices*
- 7.09 Explain how to tell whether two polygons are congruent. Write clear instructions that can be followed by a fourth or fifth grader *I may test it on them!*
- 7.10 The extension (7.10) @ Math6.org today is very important. It will give you practice with transformations on the coordinate plane. (very often a tested skill) Please complete that **or** use a coordinate plane to draw an example of each of the transformations. You should show horizontal, vertical and diagonal translations, horizontal and vertical reflections and rotations of 90° , 180° .
- 7.11 Write a paragraph to describe how you determine whether a figure has horizontal, vertical or diagonal line symmetry. Use examples and graphics.
- 7.12 Using 3 different polygons - create a pattern that can tessellate the plane. Enjoy yourself and be colorful!