Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_\_\_\_\_\_

7th Grade Advanced – Unit 1 Assessment - Study Guide (Part 2)

The Unit 1 Assessment Part 2 will cover the following concepts:

* 4 - Angles
* 5 - Classifying and Constructing Triangles/Quadrilaterals

Use the diagram below to answer the following questions.


2*x*

3*x*

*x*+ 18

2.5*x*+ 9

1. < *IHN* is a right angle.
Find the measure of < *GHN*.

54 - *x*

1. Find the measure of < *MHL*.
2. Find the measure of < *KHJ*.
3. List two of the following types of angles and explain/justify why.
	1. Vertical Angles
	2. Adjacent Angles
	3. Complementary Angles
	4. Supplementary Angles
4. <ABC and <CBD are a supplementary linear pair and share a vertex at point B.

<ABC = 2x

<CBD = 5x+40

Draw a labeled diagram that fits this scenario. Then, find the value of x. (Show your work.)

*Classify each of the following polygons and find the missing angle(s).*













*Construct the following polygons.*

1. A trapezoid with a pair of congruent sides.
2. A parallelogram with a 750 angle and a 4-centimeter side.

1. A scalene triangle with a 4-centimeter side and a 6-centimeter side.

1. An isosceles triangle with two 3-centimeter sides that meet at a 1000 angle.