**Geometry Lesson 1-8: Students will construct an equilateral triangle and a regular hexagon; students will also review how to write variable expressions based on written descriptions.**

 **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**GEOMETRY PAGE 1-8**

****

**[1st] With your compass, recreate**

**this construction:**

**[2nd] If you connect I, J and K,**

**what type of figure do you get?**

**Be as specific as possible?**

**[3rd] Explain how the distances**

**among I, J and K are related.**

****

**[4th] Recreate this construction:**

**[5th] If you connect B to C to D to**

**E to F to G to B, what type of figure**

**do you get? Be specific.**

**[6th] Explain how the different**

**circles in the diagram are related.**

**[7th] Construct an equilateral triangle.**

**[8th] Construct a regular hexagon.**

**[9th] Suppose / A measures ao.**

**Also suppose / B is 12o smaller than / A.**

 **Write an expression for the measure of**

 **/ B that uses the variable a.**

**[10th] Angle G is twice the measure of**

**angle H. If angle H measures no, write**

**the measure of angle G in terms of n.**

**[11th] Two angles have measures with a**

**sum of 90o. If one of the angles measures**

**bo, write an expression for the measure of**

**the other angle.**