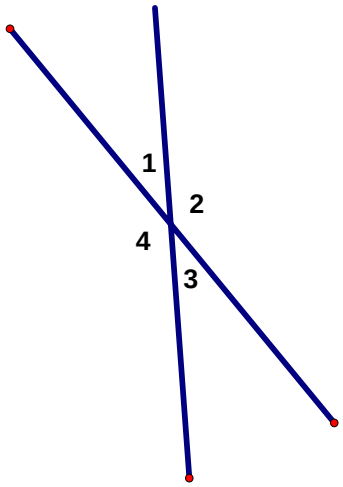
Vertical Angles **Name**_____

a. Just looking, what might be true about the angle pairs in these two intersecting segments?

1. Angles 1 and 2_____
2. Angles 2 and 3_____
3. Angles 3 and 4_____
4. Angles 4 and 1_____
5. Angles 1 and 3_____
6. Angles 4 and 2_____



b. Measure each of the four angles and write the degrees. Then use the measures to prove or disprove your prediction about the angle pairs.

5. Work like a mathematician. Test the theory.

a. Draw two intersecting lines (make it look somewhat different than above). Label the angles: <A, <B, <C, and <D. Predict which pairs of angles are congruent. Then measure the angles and label the degrees to prove your theory.

I predict that < ___ is congruent to < ___

I predict that < ___ is congruent to < ___

b. When two lines intersect, the pairs of congruent angles are called, "**vertical angles**". Arrange 4 Pattern Blocks Pieces so they share a vertex and form intersecting lines. Trace your pieces. Label the angles <H, <I, <J, <K, and tell which pairs arevertical angles.