Name:

Date:

School:

Facilitator:

5.04 Proving Line Parallel Study Guide

**Match the correct definition to the term**

      1. Exterior Angle a. Angles found along a transversal in between two parallel lines

      2. Interior Angle b. A line that crosses two or more parallel lines

      3. Transversal c. Angles found along a transversal but not in between the parallel lines

**For each of the following angle relationships, state if the angles are congruent or supplementary**

4. Corresponding Angles are      .

5. Alternate Interior Angles are      .

6. Alternate Exterior Angles are      .

7. Same Side Interior Angles are      .

8. Same Side Exterior Angles are      .

**Using the picture below, define the angles relations as either**

1. Alternate Interior
2. Alternate Exterior
3. Corresponding
4. Vertical
5. Adjacent
6. Same Side Interior
7. Same Side Exterior

Lines c and d intersecting two lines a and b
•  Line c forms vertical angles 1 and 5 and vertical angles 2 and 6 with line a
•  Line c forms vertical angles 9 and 13 and vertical angles 10 and 14 with line b
•  Line d forms vertical angles 3 and 7 and vertical angles 4 and 8 with line a
•  Line d forms vertical angles 11 and 15 and vertical angles 12 and 16 with line b



and are      . and are      .

and are      . and are      .

and are      . and are      .

15 and 4 are      .