Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Math 2 Unit 7 – Vocabulary and Angle Pair Relationships**

**Day 1: Basics of Geometry**

|  |  |  |
| --- | --- | --- |
| **Congruent Angles** | **Angle Bisector**  | **Complementary Angles** |
| **Supplementary Angles** | **Linear Pair**  | **Vertical Angles** |
| **Right Angles** | **Right Triangle** | **Angle Bisector**  |
| **Reflexive Property of Congruence** | **Transitive Property of Congruence** |
| **Parallel Lines** | **Transversal** | **Alternate Interior Angles** |
| **Alternate Exterior Angles** | **Corresponding Angles** | **Consecutive Interior Angles** |
| **Triangle Sum Theorem** | **Exterior Angle Theorem** |

Draw the given pictures. Label all points.

|  |  |  |
| --- | --- | --- |
| 1.  is the midpoint of . | 2. Lines $\overleftrightarrow{AB}$ and $\overleftrightarrow{CD}$ intersect at point .  | 3. $\overbar{WZ}$ bisects $∠FWX$. |
| 4. One angle has a measure of 50o and another has a measure of xo. The two form a linear pair | 5. Line is perpendicular to , and they intersect at point . Line is also perpendicular to , intersecting at point  | 6.  and are complementary. |
| 7. $\overleftrightarrow{ST}$ bisects $\overbar{XY}$ | 8. $∆GHT$ has 2 congruent angles, $∠G$ and $∠T$ | 9. Angles $∠ERG$ and $∠JRD$ are vertical angles. |
| 10.$ \overbar{WX}$ and $\overleftrightarrow{YZ}$ are parallel. Point G is the midpoint of $\overbar{WX}$. | 11. One angles has a measure of x + 45o, another has a measure of 2xo, and a 3rd had an angle of x – 1o. All 3 make a linear pair. | 12. $∆LJW$ is a right triangle, where $∠W $is a right angle. $∠L$ and $∠J$ are congruent.  |

**Angle Pair Relationships**



Name the Angle Pair Relationships!

Supplementary Angles, Vertical Angles, Alternate Interior Angles, Alternate Exterior Angles, Corresponding Angles, Consecutive Interior Angles, or No Relationship

1. Angles 1 and 4: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Angles 1 and 5: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Angles 4 and 5: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Angles 6 and 7: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Angles 5 and 7: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Angles 6 and 8: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Angles 2 and 8: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Angles 2 and 6: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_