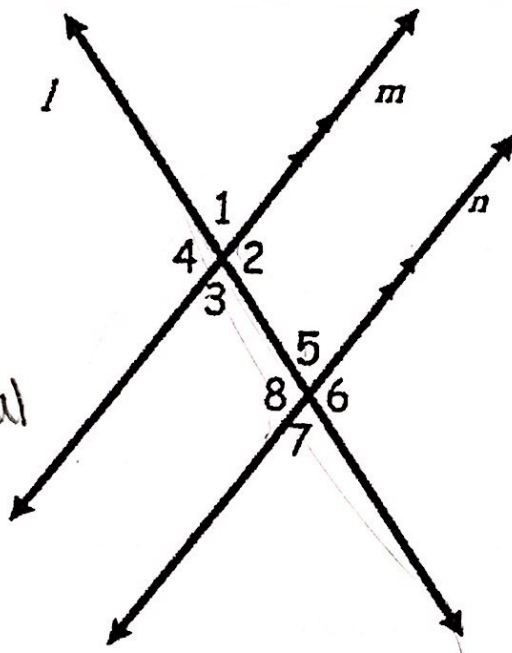


# When Two Parallel Lines Are Cut By a Transversal, What Angle Pair Relationships Exist?

**Corresponding Angles**  
 angles that occupy the same relative position at each intersection where a straight line crosses 2 others  
 Corresponding angles are 1+5.  
 & equal

**Alternate Interior**  
 2 lines crossed by another line the pair of angles on opposite sides of the transversal  
 Alternate interior angles are 3+5.  
 & equal



**Alternate Exterior**  
 when 2 lines are crossed by another line the pair of angles on opposite sides of the transversal  
 Alternate exterior angles are 4+6.  
 & equal

**Same Side Interior or Consecutive Interior**  
 2 lines that are parallel are intersected by a transversal  
 Same side interior or consecutive interior angles are 3+8 or 2+5.  
 & supplementary (add to 180)

**Same Side Exterior or Consecutive Exterior**  
 2 parallel lines are intersected by a transversal and ~~some~~  
 Same side exterior or consecutive exterior angles are 1+6 or 4+7.  
 & supplementary

**Vertical Pair**  
 pair of nonadjacent angles formed when 2 lines intersect  
 Vertical angles are 5+7.  
 & equal

**Linear Pair**  
 pair of angles formed when 2 lines intersect straight angle = 180°  
 Linear pair of angles are 4+5.  
 supplementary