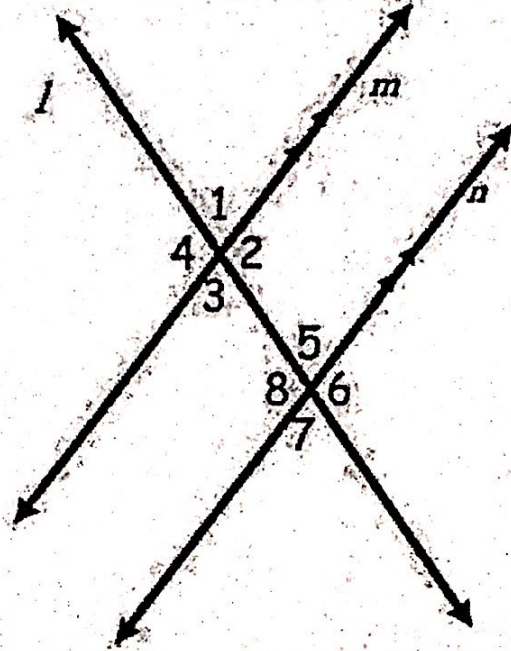


When Two Parallel Lines Are Cut By a Transversal, What Angle Pair Relationships Exist? (Day 1)

key

Corresponding Angles
 In same location of
 4 angles
 EX: $\angle 1$ & $\angle 5$ (top right)
 Corresponding angles are \cong
 (congruent)

Alternate Interior
 Inside &
 Across
 EX: $\angle 2$ & $\angle 8$
 Alternate interior angles are \cong
 (congruent)



Alternate Exterior
 Outside &
 Across
 EX: $\angle 1$ & $\angle 7$
 Alternate exterior angles are \cong
 (congruent)

Same Side Interior or Consecutive Interior
 EX: $\angle 2$ & $\angle 5$
 Same side interior or consecutive interior angles are Supplementary
 (add to 180°)

Same Side Exterior or Consecutive Exterior
 EX: $\angle 1$ & $\angle 6$
 Same side exterior or consecutive exterior angles are Supplementary
 (add to 180°)

Vertical Pair
 EX: $\angle 5$ & $\angle 7$
 Vertical angles are \cong
 (congruent)

Linear Pair
 EX: $\angle 5$ & $\angle 8$
 Linear pair of angles are Suppl.
 (add to 180°)