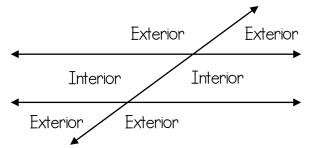
## Angle Pairs Created by Parallel Lines Cut by a Transversal

## <u>Vocabulary</u>

- Transversal A line that crosses parallel lines to create pairs of congruent and supplementary angles
- Congruent Having the same measurement
- Supplementary Angles that add up to 180°

## Angle Pairs in Parallel Lines Cut by a Transversal



 Corresponding - Angles that lie on the same side of the transversal and on the same side of the parallel lines. These angles are in the same "corner" and are <u>congruent</u>.

- Alternate Interior Angles on opposite sides of the transversal and inside the two parallel lines. These angles are <u>congruent</u>.
- Alternate Exterior Angles on opposite sides of the transversal and outside the parallel lines. These angles are <u>congruent</u>.
- Same-Side Interior Angles on the same side of the transversal and inside the parallel lines. These angles are **supplementary**.
- Same-Side Exterior Angles on the same side of the transversal and outside the parallel lines. These angles are <u>supplementary</u>.
- Vertical Angles that are across from each other and are formed by any intersecting lines (not just parallel lines and transversals). These angles are <u>congruent</u>.

## Angle Pairs Created by Parallel Lines Cut by a Transversal

Correctly identify each picture and write the appropriate angle pairs formed by the transversal in the space provided at the top of each picture. The first one is done for you!

