

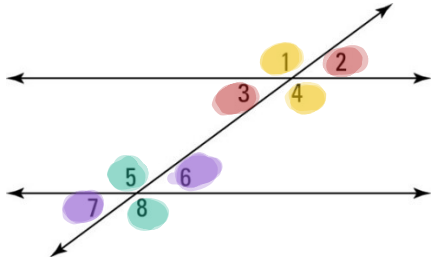
UNDERSTANDING ANGLES ON A TRANSVERSAL

VERTICAL ANGLES

Color the vertical angles. Each set should be a different color (you will need four colors)

Angles are opposite each other when 2 lines cross.
Angles are congruent.

$\angle 1 \cong \angle 4$ $\angle 6 \cong \angle 7$

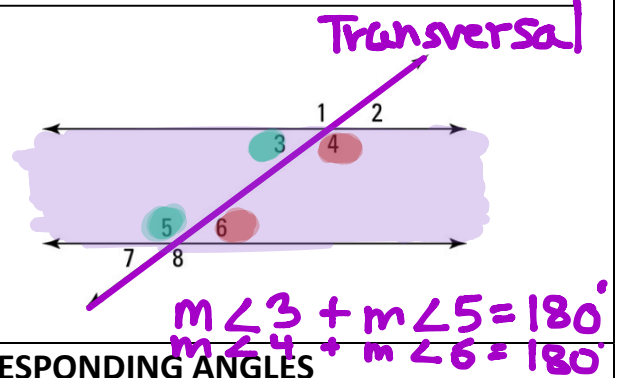


$\angle 2 \cong \angle 3$ $\angle 5 \cong \angle 8$

SAME-SIDE INTERIOR ANGLES

Color the same-side interior angles. Each set should be a different color (you will need two colors)

Angles are on the same side of the transversal, and inside the parallel lines.
Angle measures add up to 180 degrees.

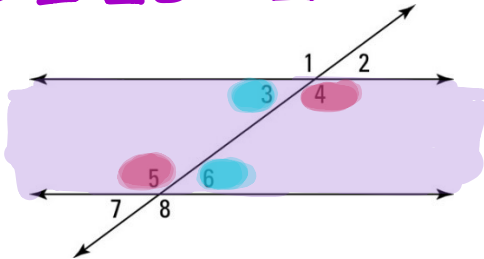


ALTERNATE INTERIOR ANGLES

Color the alternate interior angles. Each set should be a different color (you will need two colors)

Angles are on opposite sides of the transversal, and inside the parallel lines.
Angles are congruent.

$\angle 3 \cong \angle 6$ $\angle 4 \cong \angle 5$

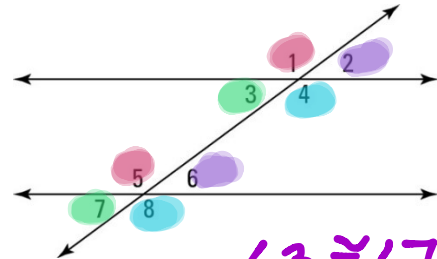


CORRESPONDING ANGLES

Color the corresponding angles. Each set should be a different color (you will need four colors)

Same side of the transversal, and matching angles.
Same relative position.
Angles are congruent.

$\angle 1 \cong \angle 5$ $\angle 2 \cong \angle 6$



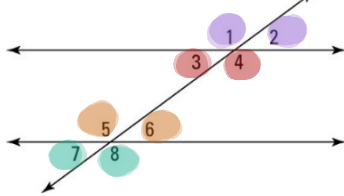
$\angle 3 \cong \angle 7$ $\angle 4 \cong \angle 8$

SUPPLEMENTARY ANGLES

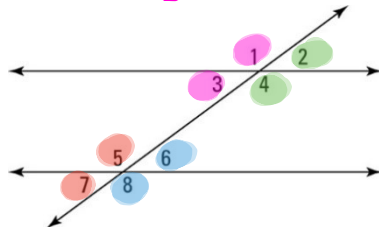
Color the supplementary angles. Each set should be a different color (you will need eight colors)

Two angles that create a straight line (180 degrees)

$m\angle 1 + m\angle 2 = 180^\circ$



$m\angle 1 + m\angle 3 = 180^\circ$

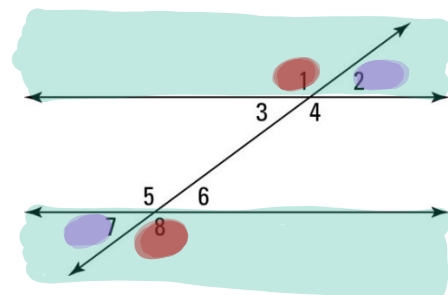


ALTERNATE EXTERIOR ANGLES

Color the alternate exterior angles. Each set should be a different color (you will need two colors)

Angles are on opposite sides of the transversal, and outside the parallel lines.
Angles are congruent.

$\angle 1 \cong \angle 8$ $\angle 2 \cong \angle 7$



* Complementary angles add up to 90°.

