

Skills You'll Need

Which of the following pairs of angles are *supplementary*?

50° and 40° 100° and 90° 120° and 60° 75° and 125°

Find the measure of the supplement of each angle.

48°

119°

67°

131°

132°

61°

113°

49°

8th Grade

Lesson 7-2: Angles and Parallel Lines

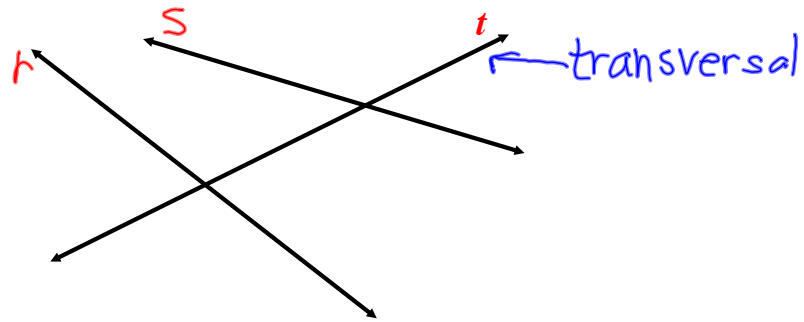
Learning Goal:

- I can identify parallel lines and the angles formed by parallel lines and transversals.

What I Know:

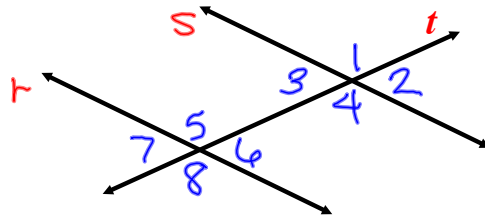
What I Learned:

Transversal



- Transversal - a line that intersects two other lines at different points

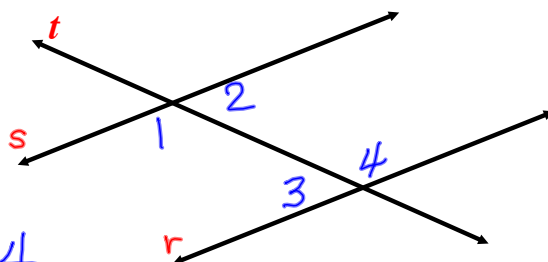
Corresponding Angles



$\angle 1$ and $\angle 5$, $\angle 3$ and $\angle 7$, $\angle 2$ and $\angle 6$, $\angle 4$ and $\angle 8$

- Corresponding Angles - angles that lie on the same side of a transversal and in corresponding positions (same relative location)

Alternate Interior Angles



$\angle 1$ and $\angle 4$
 $\angle 2$ and $\angle 3$

- Alternate Interior Angles - angles that lie within a pair of lines and on opposite sides of the transversal

Identifying Angles

Identify a pair of corresponding angles and a pair of alternate interior angles.

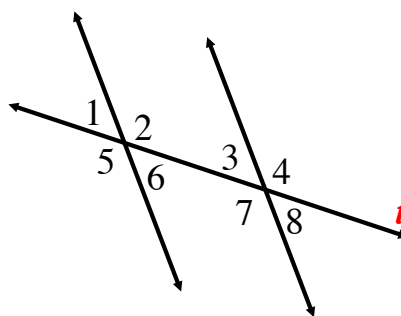
Corresponding
 angles

$\angle 1$ and $\angle 3$

$\angle 2$ and $\angle 4$

$\angle 6$ and $\angle 8$

$\angle 5$ and $\angle 7$



Alternate interior angles

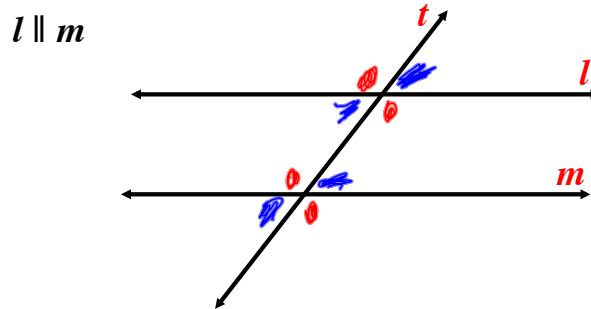
$\angle 6$ and $\angle 3$

$\angle 2$ and $\angle 7$

Transversals and Parallel Lines

When a transversal intersects two parallel lines,

- corresponding angles are congruent, and
- alternate interior angles are congruent



Assignment

8th Grade Lesson 7-2a

Pg. 220 #6-19 all