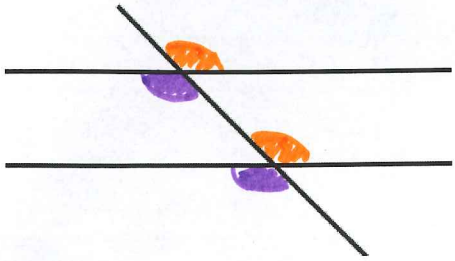
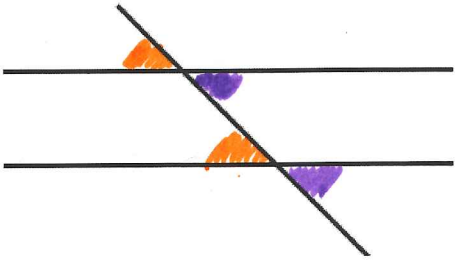
Name: Key Hour: _____

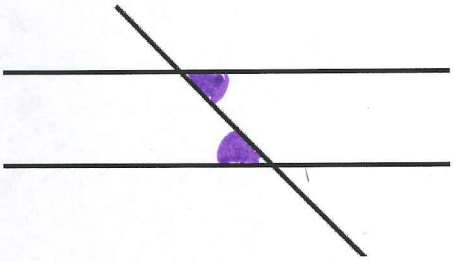
Notes: Parallels Cut by a Transversal

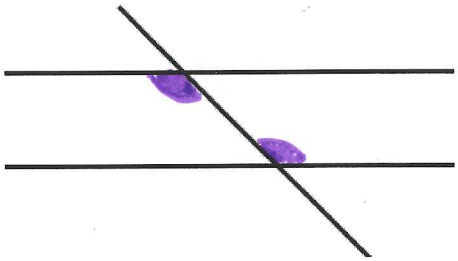
Corresponding Angles are Congruent



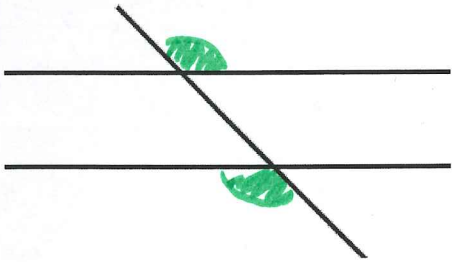


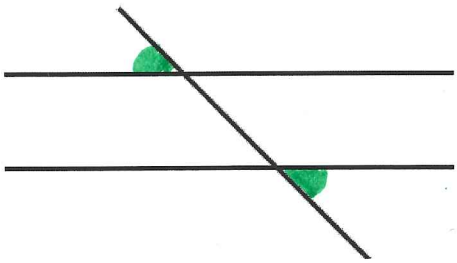
Alternate Interior Angles are congruent



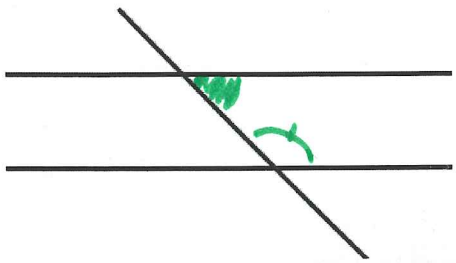


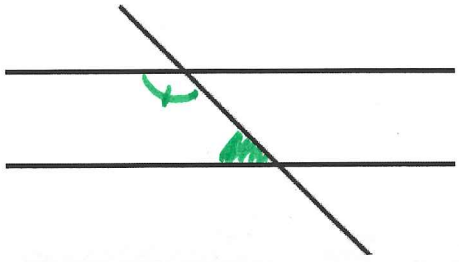
Alternate Exterior Angles are Congruent





Consecutive Interior Angles are Supplementary - meaning they add to = 180°



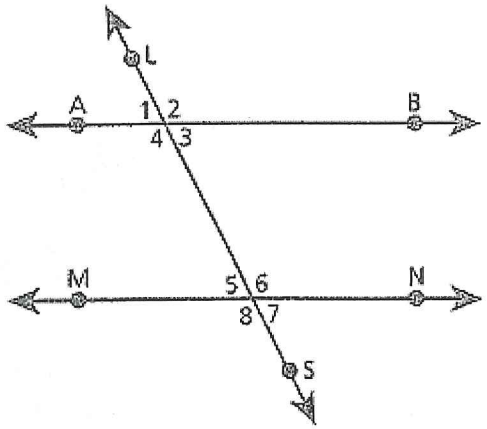


Parallels Cut by a Transversal- In Class Practice:

Directions: Use the figure to name the relationship between the two angles.

<u>You must use only the following relationships:</u>

Corresponding angles are congruent
Alternate interior angles are congruent
Alternate exterior angles are congruent
Consecutive interior angles are supplementary
Linear pairs are supplementary
Vertical angles are congruent



1. Angles 1 and 2
linear pairs are suppl.

2. Angles 4 and 2
Vertical ∠s are ≅

3. Angles 5 and 3
alternate int. ∠s are ≅

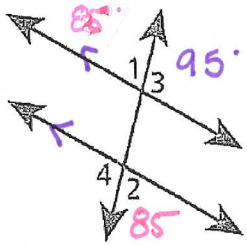
4. Angles 1 and 7
alt. ext. ∠s are ≅

5. Angles 8 and 4
Corresponding ∠s are ≅

6. Angles 6 and 3
Consecutive int. ∠s are suppl.

Directions: Use the figure to name the relationship between the two angles assuming the two lines are parallel and find the measure of the angles if < 1=85°.

<u>You must use only the following relationships:</u>
Corresponding angles are congruent
Alternate interior angles are congruent
Alternate exterior angles are congruent
Consecutive interior angles are supplementary
Linear pairs are supplementary
Vertical angles are congruent



7. m<3= 95°

Because linear pairs are suppl.

8. m<2= 85°

Because alt ext. ∠ are ≅

Directions: Use the figure to name the relationship between the two angles assuming the two lines are parallel and find the measure of the angles if < 1=110°.

9. m<3= 70°

Because linear pairs are Suppl.

10. m<2= 110°

Because alt. int ∠s are ≅