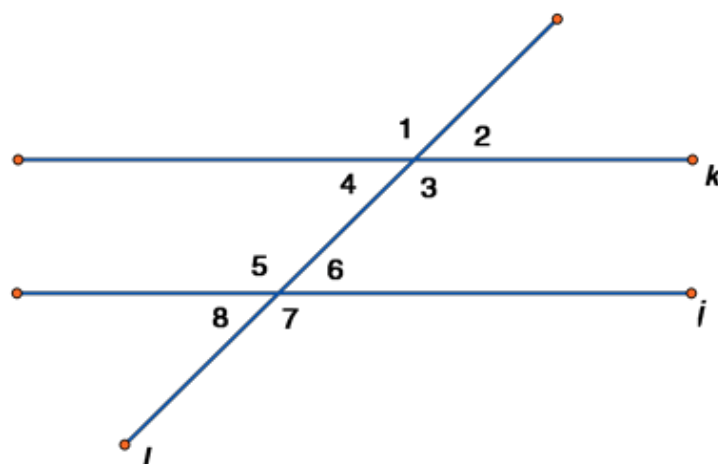
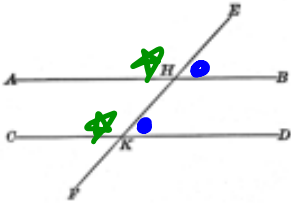
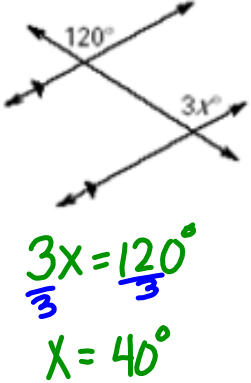
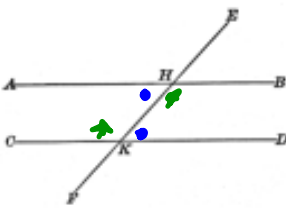
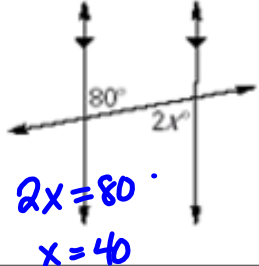
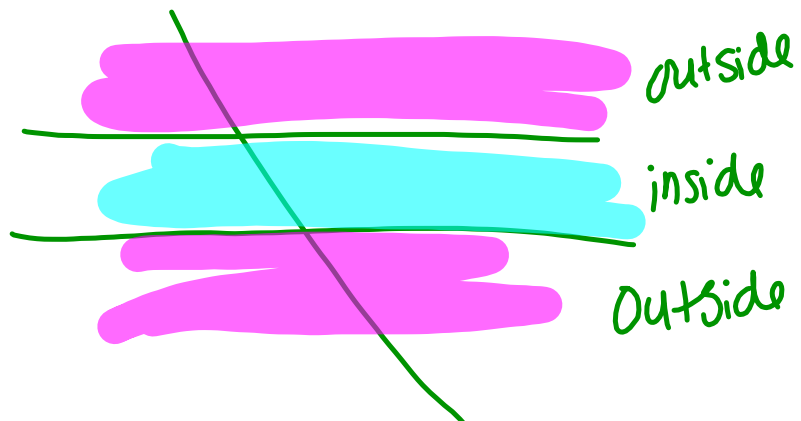


Brain dump: How many different relationships can you identify in the picture below.

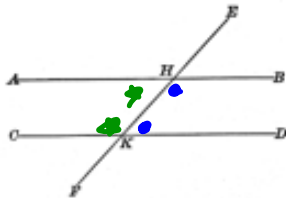
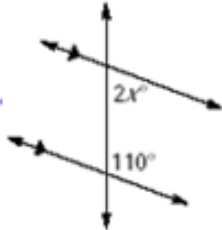


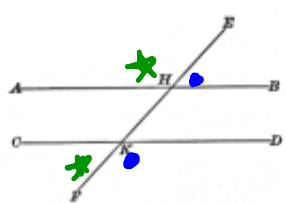
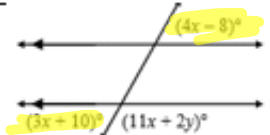
<p>Corresponding</p> <p>Two angles that lie in the <u>Same position</u>.</p>		<p>Corresponding Angles Postulate: If <u>parallel lines</u> are cut by a transversal, then the pairs of corresponding angles are <u>Congruent</u>.</p>	 <p>$3x = 120^\circ$ $\underline{\quad 3}$ $\underline{\quad 3}$ $x = 40^\circ$</p>
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<p>Alternate Interior Angles</p> <p>Two angles in the <u>inside</u> of the parallel lines and on <u>opposite</u> sides of transversal</p>		<p>Alternate Interior Angles Theorem: If 2 <u>parallel</u> lines are cut by a transversal, then the pairs of alternate interior angles are <u>congruent</u></p>	 <p>$2x = 80^\circ$ $x = 40$</p>
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<p>Alternate Exterior Angles</p> <p>Two angles in the <u>outside</u> of the parallel lines and on <u>opposite</u> sides of the transversal</p>		<p>Alternate Exterior Angles Theorem: If 2 <u>//</u> <u>lines</u> are cut by a transversal, then the pairs of alternate exterior angles are <u>\cong</u>.</p>	$ \begin{aligned} 2x - 4 &= 92 \\ +4 & \quad +4 \\ \hline 2x &= 96 \\ \frac{2x}{2} &= \frac{96}{2} \\ x &= 48 \end{aligned} $
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<p>Consecutive (Same-Side) Interior Angles</p> <p>Two angles in the <u>inside</u> of the parallel lines and on <u>Same</u> sides.</p>		<p>Consecutive (Same Side) Interior Angles Theorem: If 2 <u>parallel</u> lines are cut by a transversal, then the pairs of consecutive interior angles are <u>Supplementary</u></p>	 $ \begin{array}{r} 2x + 110 = 180 \\ \underline{-110 \quad -110} \\ 2x = 70 \\ x = 35 \end{array} $
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<p>Consecutive (Same-Side) Exterior Angle</p> <p>Two angles in the <u>Outside</u> of the parallel lines and on <u>Same</u> sides.</p>		<p>Consecutive (Same Side) Exterior Angles Theorem: If 2 <u>parallel</u> lines are cut by a transversal, then the pairs of consecutive exterior angles are <u>Supplementary</u>.</p>	 <p> $11x + 2y + 4x - 8 = 180$ $15x + 2y - 8 = 180$ $15(18) + 2y - 8 = 180$ $270 + 2y - 8 = 180$ $262 + 2y = 180$ -262 $2y = 82$ $y = -41$ </p>
$ \begin{array}{r} 4x - 8 = 3x + 10 \\ -3x \quad -3x \\ \hline x - 8 = 10 \\ +8 \quad +8 \\ \hline x = 18 \end{array} $			

What is on your quiz?

-take 7 minutes and try and think of all the material on your quiz.

- Vocab / Symbols
 - Relationships among angles and segment.
 - Angle bisectors
 - Segment bisectors.
 - Corresponding \angle s
 - Supplementary \angle s
 - Complementary \angle s
- alt. ext \angle s
 - alt. int \angle s
 - Consecutive \angle s int
ext.
 - linear pair
 - vertical \angle s
 - Types of Angle = obtuse
= Acute
= Right
= Straight