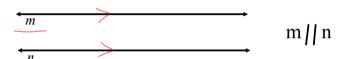


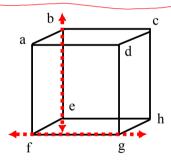
Name	Period
Unit 9 Day 2	Transversals
	A 1/2 B 3/4 5/6
I can Recogniz	ze Relationships
Created 6	ze Relationships y transversals.

## Identify Pairs of Lines and Angles

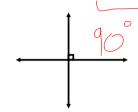
Parallel Lines Two lines that do not intersect and are coplanar.



Skew Lines Two lines that do not intersect and are not coplanar.

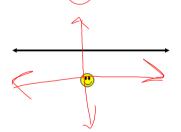


Perpendicular Lines: Two lines that intersect to form a right angle.

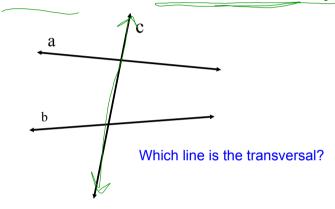


If there is a line and a point not on the line, then how many lines can be drawn through the point parallel to the line?

Perpendicular to the line?



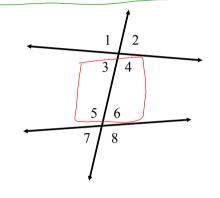
Transversals A line that intersects two or more coplanar lines.



line c is a transversal



## Angles Formed by Transversals

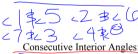


Alternate Interior Angles:

Alternate Exterior Angles:



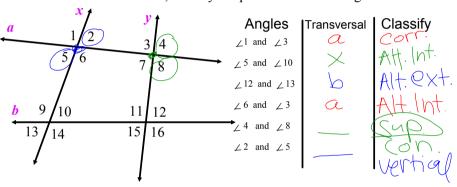
Corresponding Angles:



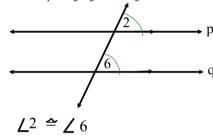
24\$c6 23\$5 http://www.mathsisfun.com/flash.php?path=%2Fgeometry/images/parallel.swf&w=663&h=357&col=%23ffffff&title=Parallel+Lines%2C+and+Pairs\_+of+Angles

- Transversal
- Parallel Lines
- Vertical Angles
- Corresponding Angles
- Alternate Interior Angles
- Alternate Exterior Angles
- Consecutive Interior Angles

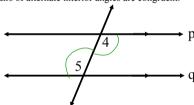
Name the transversal then, classify the pair of numbered angles.



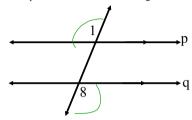
Corresponding Angles Postulate: If two parallel lines are cut by a transversal, then the pairs of corresponding angles are congruent.



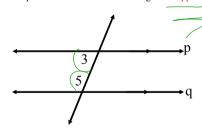
Alternate Interior Angles Theorem If two parallel lines are cut by a transversal, then the pairs of alternate interior angles are congruent.



Alternate Exterior Angles Theorem: If two parallel lines are cut by a transversal, then the pairs of alternate exterior angles are congruent.

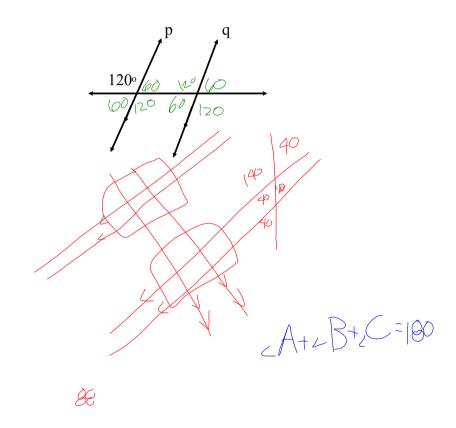


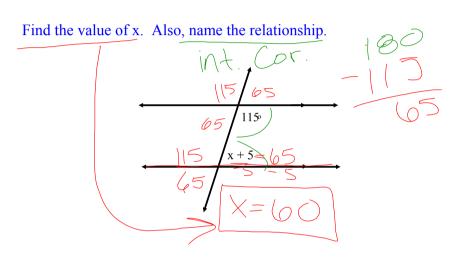
Consecutive Interior Angles Theorem If two parallel lines are cut by a transversal, then the pairs of consecutive interior angles are upplementary.

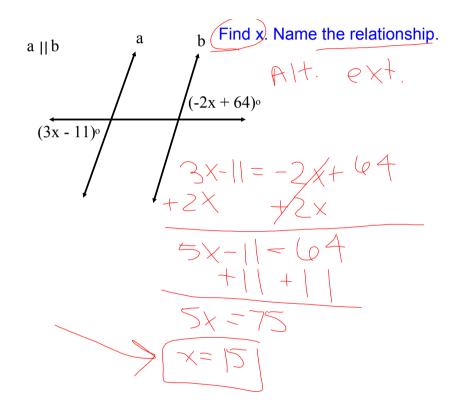


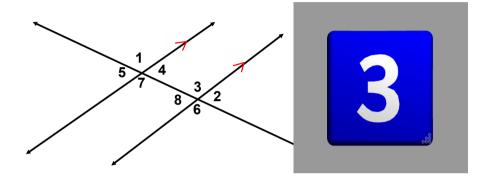
$$\angle 3 + \angle 5 = 180$$

Lines p and q are parallel. Find the measure of all other angles.









Roll the blue cube then, name an angle that is **congruent** to the angle rolled and their **relationship**.