Name _____ Test Date _____ Period _____

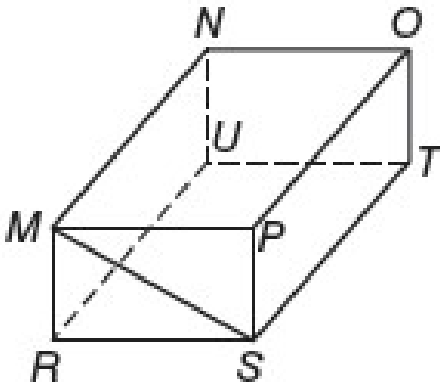## Chapter 3: Parallel Lines and Transversals

3-1 Lines and Angles

Write in your own words a definition for each vocab word.

Parallel Lines:

Skew Lines:

Parallel Planes:

What plane is parallel to plane NOP?

What segments are parallel to RS?

What segments intersect plane MNU?
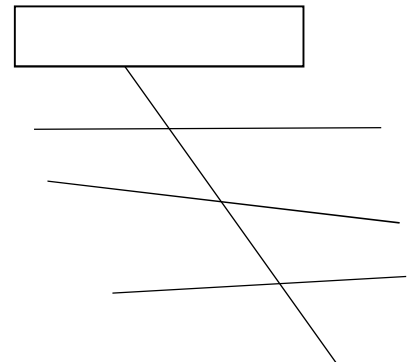
What segments intersect line UT?

Intersecting Lines

Transversal Lines: a line that intersects 2 or more lines in the same plane

Alternate Angles: opposite sides of the transversal line

Consecutive Angles: same side of the transversal line

Corresponding Angles: one interior and one exterior both on the same position

Complete the chart below with the appropriate angle pairs.

Angle Name	Angle Pairs	
alternate interior angles		
alternate exterior angles		
consecutive interior angles		
corresponding angles		

Chapter 3: Parallel Lines and Transversals

3-1 Cont. Lines and Angles

From the activity fill out the chart below about the angle pairs.

Angle Pairs	Relationship	Example
Alternate Interior Angles		
Alternate Exterior Angles		
Corresponding Angles		
Consecutive Interior Angles		
Consecutive Exterior Angles		

In the figure, $m\angle 3 = 102$. Find the measure of each angle.
Tell which postulate(s) or theorem(s) you used.

1. $\angle 5$

2. $\angle 6$

3. $\angle 11$

4. $\angle 7$

5. $\angle 15$

6. $\angle 14$
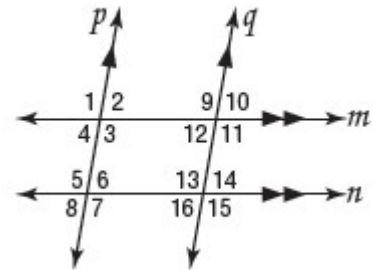
Algebra and Angle Measures: Use what you know about parallel lines and transversals to find the value of x and y.

1.

y=

x=

2.

y=

x=