

Chapter 3: Parallel Lines and Transversals

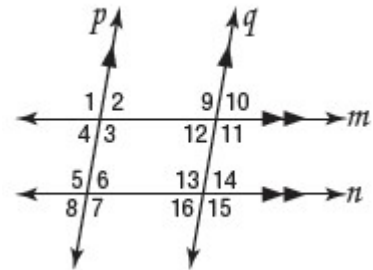
3-2 Properties of Parallel Lines

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.

