

Angles and Transversals

Partner Discovery

You will need a piece of notebook paper to do the following.
Make sure that your picture is large enough to measure using a protractor.

Parallel Lines

Using the lines of your notebook paper, draw a set of parallel lines.

Using a straightedge, draw a transversal that crosses your parallel lines.

A **transversal** is a line that intersects two or more lines.

You should now have 8 angles. They should resemble two intersections with four angles at each intersection.

Number your eight angles (#1 - 8).

Using the protractor, measure (and label) each angle.

Summarize all of the information that you find. Look for as many relationships as you can! The more the better!!!! There is a lot of stuff going on with these eight angles.

Non-Parallel Lines

Do you think that the relationships you found on the front exist if the lines are not parallel??

On your notebook paper, draw a set of lines that are not parallel.

Using a straightedge, draw a transversal that crosses your lines.

Remember: A **transversal** is a line that intersects two or more lines.

You should now have 8 angles. They should resemble two intersections with four angles at each intersection.

Number your eight angles (#1 - 8).

Using the protractor, measure (and label) each angle.

Again summarize all of the information that you find.