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Math Antics - Angle Basics Finding  
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Transversal Ex. Angles:

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~~Theorem For Triangles, Practice~~  
~~Problems - Geometry Solving~~  
~~problems involving parallel lines cut~~  
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**Prob 12 Home**  
In this section, we are going to see the angle relationships in triangles through the following steps. Step 1 : Draw a triangle and cut it out. Label the angles A, B, and C. Step 2 : Tear off each “ corner ” of the triangle. Each corner includes the vertex of one angle of the triangle. Step 3 : Arrange

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the vertices of the triangle around a point so that none of your corners overlap and there are no gaps between them.

## Angle Relationships in Parallel Lines and Triangles

These lines are parallel, because a pair

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of Corresponding Angles are equal.

These lines are not parallel, because a pair of Consecutive Interior Angles do not add up to  $180^\circ$  ( $81^\circ + 101^\circ = 182^\circ$ ) These lines are parallel, because a pair of Alternate Interior Angles are equal

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Parallel Lines, and Pairs of Angles  
Popular Tutorials in Angle  
Relationships and Parallel Lines How  
Do You Use Complementary Angles to  
Find a Missing Angle? If two angles  
are complementary, that means that  
they add up to 90 degrees. This is  
very useful knowledge if you have a

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figure with complementary angles and you know the measurement of one of those angles.

Angle Relationships and Parallel Lines  
| Pre-Algebra ...

Each angle above has at least one congruent counterpart. There are

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several different types of congruent relationships that happen when a transversal cuts two parallel lines and we are going to break each down: 1) Alternate Interior Angles: When a transversal line cuts across two parallel lines, opposite interior angles are congruent.



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Geometry: Transversals and Parallel  
Lines – MathSux<sup>2</sup>

Parallel Lines Theorems When two  
parallel lines are cut by a transversal  
line, then the pairs of corresponding  
angles are congruent, the pairs of  
alternate interior angles are

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congruent, and the pairs of alternate exterior angles are congruent.

Explainer: Parallel Lines and  
Transversals: Angle ...

When the lines are parallel, the  
measures are equal.  $\angle 1$  and  $\angle 2$  are  
alternate interior angles.  $\angle 3$  and  $\angle 4$

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are alternate interior angles. Alternate interior angles are "interior" (between the parallel lines), and they "alternate" sides of the transversal.

Angles and Parallel Lines -  
MathBitsNotebook(Geo - CCSS Math)  
Corresponding Angle Axiom. If two

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lines which are parallel are intersected by a transversal then the pair of corresponding angles are equal. From Fig. 3:  $1 = 6$ ,  $4 = 8$ ,  $2 = 5$  and  $3 = 7$ . The converse of this axiom is also true according to which if a pair of corresponding angles are equal then the given lines

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are parallel to each other. Theorem 1.  
If two lines which are parallel are  
intersected by a transversal then the  
pair of alternate interior angles are  
equal.

Parallel Lines - Definition & Concept |  
Pair of Angles

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All angles that have the same position with regards to the parallel lines and the transversal are corresponding pairs e.g. 3 + 7, 4 + 8 and 2 + 6.

Angles that are in the area between the parallel lines like angle 2 and 8 above are called interior angles whereas the angles that are on the

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outside of the two parallel lines like 1 and 6 are called exterior angles.

Angles and parallel lines (Pre-Algebra, Introducing ...

When two parallel lines are intersected by a transversal, complex angle relationships form, such as

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alternating interior angles,  
corresponding angles, and so on.  
Being able to spot angle relationships,  
and confidently find congruent angles  
when lines intersect, will make you a  
better, geometry student.

Types of Angle Relationships |



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Corresponding, Alternate ...

An introduction to alternate, corresponding and co-interior angles in parallel lines Parallel lines are lines which are always the same distance apart and never meet. Arrowheads show lines are...

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Angles in parallel lines - Angles, lines  
and polygons ...

All angles that have the same position with regards to the parallel lines and the transversal are corresponding pairs. Angles that are in the area between the parallel lines like angle H and C above are called interior angles

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whereas the angles that are on the outside of the two parallel lines like D and G are called exterior angles.

Angles, parallel lines and transversals  
(Geometry ...

Draw two parallel lines running horizontally, and draw a non-vertical

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line across them. You'll get 8 angles.  
In the upper intersection, starting  
from the upper-left angle and going  
clockwise, label the angles A, B, C, D.  
In the bottom intersection, in the  
same fashion, label them E, F, G, H.

Angles, parallel lines, & transversals

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(video) | Khan Academy

On this lesson, you will learn everything there is to know about parallel lines cut by transversals and angle relationships including supplementary angles, c...

Parallel Lines Cut by a Transversal &

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Angle Relationships ...

Angles Labelled on Parallel Lines

Observational Angle Relationships As discussed in the presentation, various pairs of angles seem to be related to each other, and these pairs are given special names.

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Angles on Parallel Lines – GeoGebra

Parallel lines-two lines that are the same distance apart and never intersect. Transversal line-a line that intersects two lines. -When a transversal line intersects parallel lines, different types of angle relationships are formed.

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Corresponding angles-angles that lie on the same side and the measures are equal.

Parallel Lines/Angle Relationships-  
Unit 10

Supplementary and Congruent Angles  
in Parallel Lines If the pairs of angles



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are vertical, corresponding, or alternate, they are congruent. Similarly, the pairs of angles are supplementary if they are linear or consecutive. Use this information to answer the questions in parts A and B of this 8th grade worksheet.

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Angles formed by Parallel Lines cut by  
a Transversal ...

the same measure, and angles B, D,  
and G (the Label the inside of the  
parallel lines above ("Interior", and  
label the outside region of the parallel  
lines "Exterior". Several special pairs  
of angles are created when parallel

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lines are cut by a transversal.

## PARALLEL LINES AND TRANSVERSALS

Side by side but never touching,  
parallel lines have the best  
relationship. Why? Because it never  
changes.

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