

Angles Formed by Parallel Lines

Alternate Interior Angles	Alternate Exterior Angles
Corresponding Angles	Consecutive Interior Angles

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Instructions

Print or copy page 3 and 4 double sided.

Place the paper so the examples are face down.

Cut along the dotted lines to create flaps.

Flip and fold the flaps inwards.

Glue the foldable into notes or on a piece of construction paper.

Go through the foldable with your students.

**Alternate
Exterior
Angles**

**Alternate
Interior
Angles**

Preview

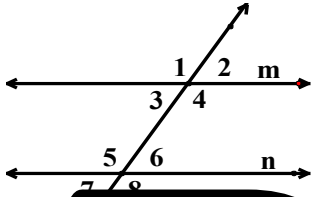
**Consecutive
Interior
Angles**

**Corresponding
Angles**

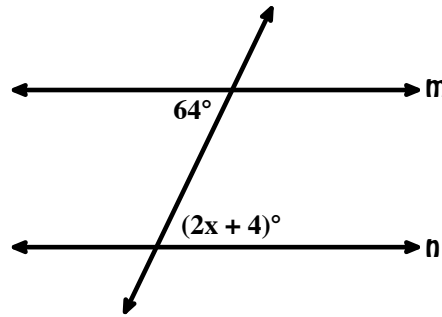
Alternate Interior Angles

The angles between the two lines and on opposite sides of the transversal.

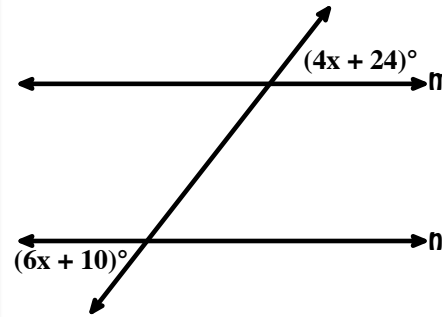
Alternate Interior Angles are congruent when line m is parallel to line n .



Find the value of x given $m \parallel n$



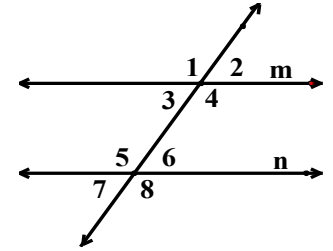
Find the value of x given $m \parallel n$



Alternate Exterior Angles

The angles outside the two lines and on opposite sides of the transversal.

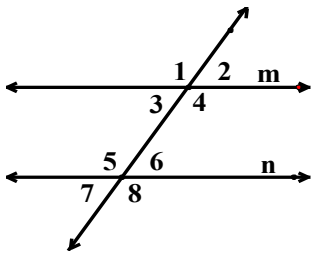
Alternate Exterior Angles are congruent when line m is parallel to line n .



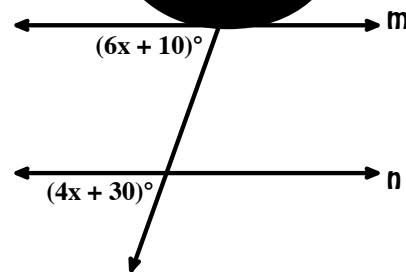
Corresponding Angles

Angles that are on the same side of the transversal and both above or below the lines.

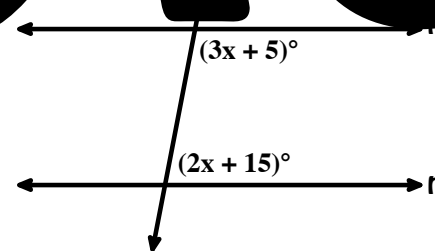
Corresponding Angles are congruent when line m is parallel to line n .



Find the value of x given $m \parallel n$



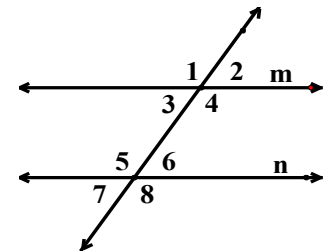
Find the value of x given $m \parallel n$



Consecutive Interior Angles

Angles that are on the same side of the transversal and between the lines.

Consecutive Interior Angles are supplementary (have a sum of 180 degrees) when line m is parallel to line n .

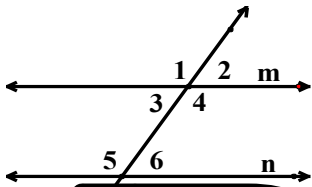


Preview

Alternate Interior Angles

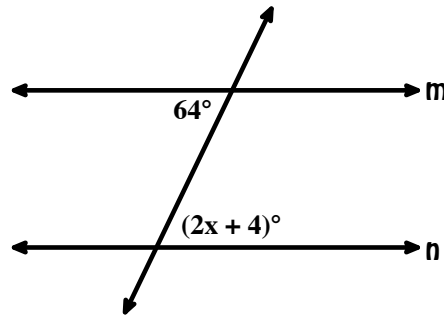
The angles between the two lines and on opposite sides of the transversal.

Alternate Interior Angles are congruent when line m is parallel to line n .



Angles: 1 and 6
Angles: 2 and 5

Find the value of x given $m \parallel n$

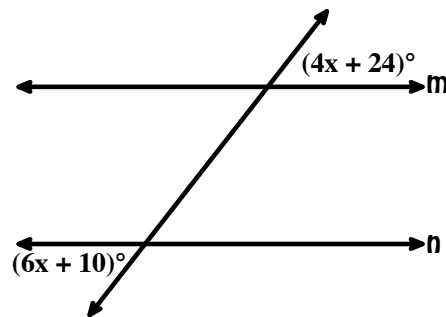


$$2x + 4 = 64$$

$$2x = 60$$

$$x = 30$$

Find the value of x given $m \parallel n$



$$6x + 10 = 4x + 24$$

$$2x + 10 = 24$$

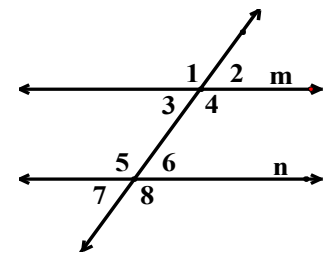
$$2x = 14$$

$$x = 7$$

Alternate Exterior Angles

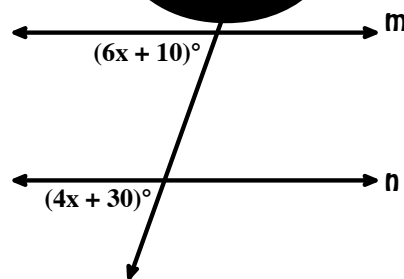
The angles outside the two lines and on opposite sides of the transversal.

Alternate Exterior Angles are congruent when line m is parallel to line n .



Angles: 1 and 8
Angles: 2 and 5

Find the value of x given $m \parallel n$



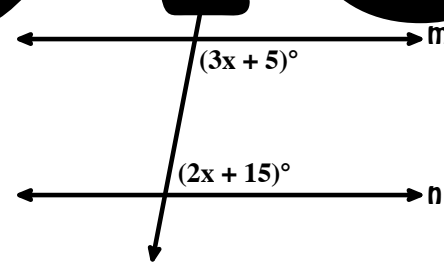
$$6x + 10 = 4x + 30$$

$$2x + 10 = 20$$

$$2x = 10$$

$$x = 5$$

Find the value of x given $m \parallel n$



$$3x + 5 + 2x + 15 = 180$$

$$5x + 20 = 180$$

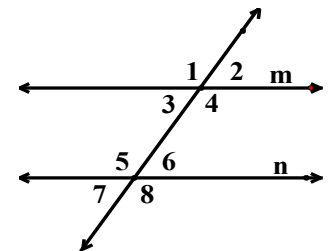
$$5x = 160$$

$$x = 32$$

Consecutive Interior Angles

Angles that are on the same side of the transversal and between the lines.

Consecutive Interior Angles are supplementary (have a sum of 180 degrees). when line m is parallel to line n .

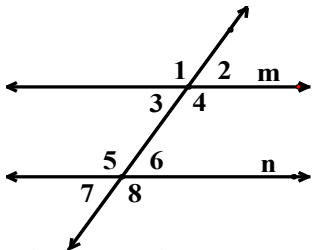


Angles: 3 and 5
Angles: 4 and 6

Corresponding Angles

Angles that are on the same side of the transversal and both above or below the lines.

Corresponding Angles are congruent when line m is parallel to line n .



Angles: 1 and 5
Angles: 3 and 7
Angles: 2 and 6
Angles: 4 and 8