Angles Notes

Name:	
rvaille.	

Reminders:

Acute Angle	Obtuse Angle	Right Angle Parallel Lines		Perpendicular Lines
less_than 90°	more than 90° 1e55 than 180°	exactly 90°	2 lines that never	2 lines that meet at a right angle
		<u></u>		←
Supplementary Angles	2 angles the add up to 1	i e	B + B = 180°	21+L2=180°

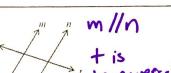
Important Information:

A straight line has...

a TRANSVERSAL-

is a straight line that intersects

2 parallel lines

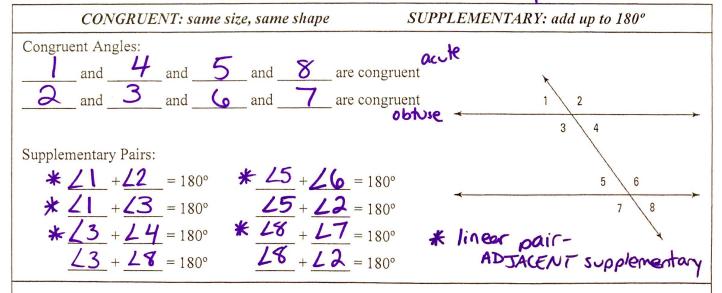


So... any time you are dealing with two parallel lines with a transversal...

ALL the acute angles are ______ to each other.

ALL the obtuse angles are ______ to each other.

ANY PAIR of one acute and one obtuse angle is _____ Supplementary



IF... angle $2 = 120^\circ$, then $2 = 120^\circ$, and $2 = 120^\circ$ and $2 = 120^\circ$. Find the other angles by Subtracting from 180°

Angles 21 and 24 and 25 and 28 are 60°

Angle Relationship BASICS:

Same Side and Alternate refer to which side of the Tan sversa

Interior and Exterior refer to the relationship the angles have with the parallel

(connect the ends of the parallel lines to make a box to help SEE this part!)

X//y $t \rightarrow transversal$ Angle Relationships: SUPPLEMENTARY CONGRUENT (same 512e, same 5hape Corresponding Angles Same Side Interior Angles Alternate Interior Angles same location, of the 1 Nside opposite INside different intersection transvesal the parallel porallel sides of lines transversal 41845, 42846 4 & 28, 23 & 27 23&25,24&26 23&26,24&25 Alternate Exterior Angles Vertical Angles Same Side Exterior Angles share a yertex, outsile opposite of the ouTside no sides parallel the parallel sides transversal ACROSS from one another lines lines transveral 4 & 4 , 4 2 & 4 3 exterior & L 8, L 2 & L 7 L 2 & L 8, L 6 & L 7

Angle Relationship BASICS:

Same Side and Alternate refer to which side of the + Tan sversa the angles are on.

Interior and Exterior refer to the relationship the angles have with the Parallel lines to make a box to help SEE this part!)

t > transversal Angle Relationships: SUPPLEMENTARY CONGRUENT (same 512e, same_ Same Side Interior Angles Corresponding Angles Alternate Interior Angles same location, of the 1 Nside opposite INside different interaction transvesal porallel Sides of lines transversal intersections 2 \ & 2 \ 5, 2 \ 2 \ & 2 \ 6 2<u>4</u> &2<u>8</u>,2<u>3</u>&2<u>7</u> 23826,24825 23 & 25, 24 & 26 Vertical Angles Same Side Exterior Angles Alternate Exterior Angles share a vertex, outsile opposite ouTside parallel transversal the parallel ACROSS from one another lines lines transveral exteriort 4, 4, 4, 2 & 2 3 25&28,26&27

Angles Notes

Name:

Reminders:

Acute Angle	Obtuse Angle	Right	Angle	Parallel Lines	Perpendicular Lines
	than 90°			2 lines that never	2 lines that meet at a
than 90°	than 180°		90°		angle
		<u> </u>			1
Supplementary Angles	angles that up to 180°		4		

Important Information:

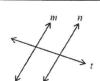
A str	aight	line	has
A str	aignt	line	nas

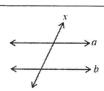
•

a TRANSVERSAL

is a straight line that ____

2 parallel lines





So... any time you are dealing with two parallel lines with a transversal...

ALL the acute angles are ______ to each other.

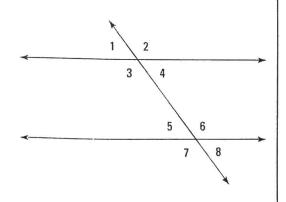
ALL the obtuse angles are _______ to each other.

ANY PAIR of one acute and one obtuse angle is _____

CONGRUENT: same size, same shape SUPPLEMENTARY: add up to 180°

Congruent Angles:

and and and are congruent are congruent



Supplementary Pairs:

IF... angle $2 = 120^{\circ}$, then ____ and ___ and ___ also equal 120° .

Find the other angles by ______.

Angles ____ and ___ and ___ are ____o

Angle Relationship BASICS:

Same Side and Alternate refer to which side of the ______ the angles are on.

<u>Interior</u> and <u>Exterior</u> refer to the relationship the angles have with the ______.

(connect the ends of the parallel lines to make a box to help SEE this part!)

Angle Relationships:

CONGRUENT (same	, same)
Alternate Interior Angles	Corresponding Angles
5/6 7/8 2&	1/2 3/4 5/6 7/8 ∠& ∠, ∠& ∠ ∠& ∠, ∠& ∠
Alternate Exterior Angles	Vertical Angles
1/2 3/4 5/6 7/8	1/2 3/4 5/6 7/8 ∠& ∠, ∠& ∠ ∠& ∠, ∠& ∠
	Alternate Interior Angles Alternate Exterior Angles Alternate Exterior Angles