Parallel Lines cut by a Transversal

6.10A

Expressions, equalions, and relationships.
The student applies mathematical process standards to use equations and inequalities to solve problems. The student is expected to:

(A) model and solve one-variable, one-step equations and inequalities

that represent problems, including

geometric concepts;

7.11C

Expressions, equalions, and relationships.
The student applies mathematical process standards to solve one-variable equations and inequalities. The student is expected to:

(C) write and solve equations using geometry concepts, including the sum of the angles in a triangle, and angle relationships.

8.8D

Expressions, equalions, and relationships.
The student applies mathematical process standards to use one-variable equations or inequalities in problem situations. The student is expected to:

(D) use informal arguments to establish facts about the angle sum and exterior angle of triangles, the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles.

my teacher's learning goals for me are that I will be able to:

- Classify angle pairs using specific math vocabulary.
- <u>Calculate angle measures</u> and prove using math vocabulary.
- Write an <u>equation</u> and <u>solve it</u> to calculate the missing measure.
- Pon't get trickep...Answer what the question is asking me to calculate!

Exploring Parallal Lings CH Ry a Transversal

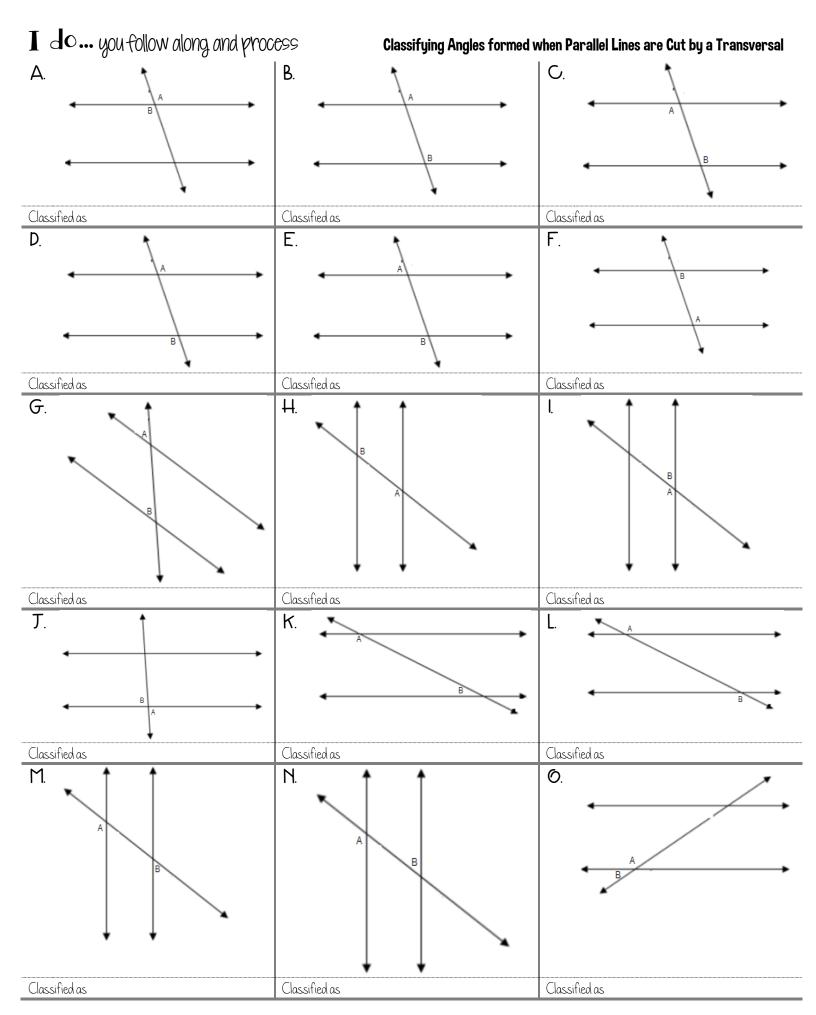
Transversal Line

I will master the learning goals for Parallel Lines cut by					
<u>a</u>	Tra	ansversal with at least mastery by:			
	1)	Asking questions when I'm not sure of something and answering questions when I know the answer.	<u>\</u>		
	2)				

Syou should have "patty paper" for this activity. There is a lot of vocabulary that you will use to support your solution
for missing angle measures.
j m y o o o o o o o o o o o o o o o o o o
Parallel Lines

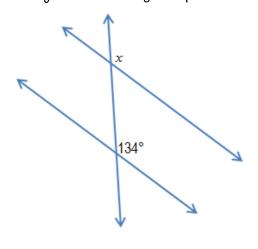
when Parallel lines are Cut By a transversal?				
Vertical Angles	Corresponding Angles			
Alternate Exterior Angles	Alternate Interior Angles			
Same-Side Exterior Angles	Same-Side Interior Angles			

What he you notice about the angles formed

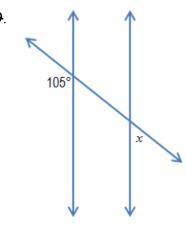


I do... you follow along and process

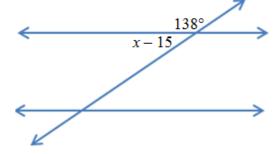
Solving for Angles formed when Parallel Lines are Cut by a Transversal



O.

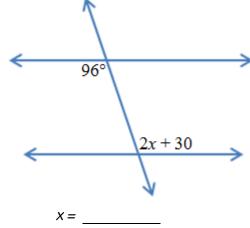


R.



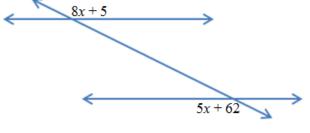
$$\begin{array}{c}
x = \\
x - 15 = \\
\end{array}$$

S.

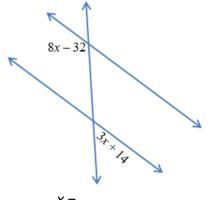


$$\begin{array}{c}
x = \\
2x + 30 =
\end{array}$$

T.



U.



$$\begin{array}{c}
 x = \\
 8x - 32 = \\
 3x + 14 =
 \end{array}$$