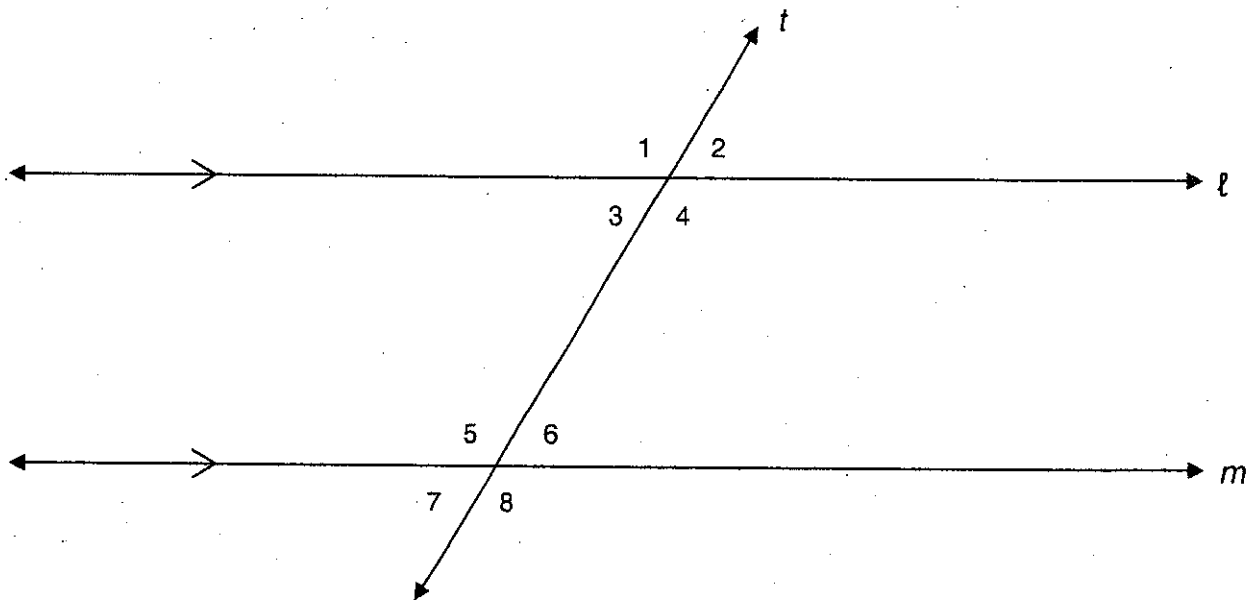


**OBJECTIVES:** I can identify angles formed by two lines and a transversal.  
I can use properties of parallel lines to find the missing angle measure(s) in pairs of angles with special relationships.



Parallel statement:  $l \parallel m$

Line  $t$  is called a transversal  
because it intersects both  $\parallel$  lines

Type of Angle Pair	Angles from Above	Relationship with parallel lines
Alternate Interior Angles	$3 + 6, 4 + 5$	congruent
Alternate Exterior Angles	$1 + 8, 7 + 2$	congruent
Corresponding Angles	$1 + 5, 2 + 6, 4 + 8$ $3 + 7$	congruent
Same-Side Interior	$3 + 5, 4 + 6$	supplementary
Same-Side Exterior	$1 + 7, 2 + 8$	supplementary
Vertical Angles	$1 + 4, 2 + 3, 5 + 8, 7 + 6$	congruent
Linear Pairs	$1 + 2, 1 + 3, 3 + 4, 2 + 4$ $5 + 6, 5 + 7, 8 + 7, 8 + 6$	supplementary