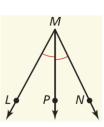
## Geometry

## 2.5 Proving Statements about Segments and Angles

Given: Loaf of bread, jar of peanut butter, and jelly sitting on counter									
Prove: Make a peanut butter and jelly sandwich									
Congruence of segments and angles is reflexive, symmetric, and transitive.									
Writing proofs follow the same step as the sandwich.									
1. Write the	and	written at	the top for refere	nce					
2. Start with the	as step 1								
3. The steps need to be in an order									
4. You cannot use an object without it									
5. Remember the hypothesis states the you are working with, the conclusion states what you are			at you are						
with it									
6. If you get stuck ask, "Okay, now I have What do I know about?" and look at the									
of your theorems, definitions, and properties.									
Complete the proof by justifying each statement. P Q S			S						
Given: Points P, Q, and S are collinear			r	ų	5				
Prove: PQ = PS - QS									
Statements	Reasons								
Points P, Q, and S are collinear									
PS = PQ + QS									
PS - QS = PQ									
PQ = PS - QS									

Geometry 2.5 Write a two column proof Given: $\overline{AC} \cong \overline{DF}$ , $\overline{AB} \cong \overline{DE}$	Name:
Prove: $\overline{BC} \cong \overline{EF}$	
Statements	Reasons

Prove this property of angle bisectors: If you know  $\overline{MP}$  bisects  $\angle LMN$ , prove that two times  $m \angle LMP$  is  $m \angle LMN$ . Given:  $\overline{MP}$  bisects  $\angle LMN$ Prove:  $2(m \angle LMP) = m \angle LMN$ 



Assignment: 99 #1, 2, 4, 6, 10, 12, 14, 16, 17, 18, 23, 24, 25, 27, 30 = 15 total