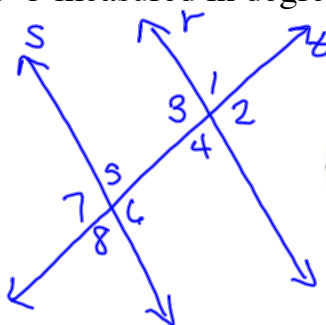


## Finding Angle Measures

A carpenter wants to make the hat rack below and needs to find all the angle measurements. He knows that line  $r$  is parallel to line  $s$ , and  $m\angle 4 = 63^\circ$ . What is the  $m\angle 5$  measured in degrees?

$m\angle 4 = 63^\circ$   
 $\angle 4$  and  $\angle 5$  are alternate interior angle so  
 $m\angle 5 = 63^\circ$



The  $m\angle 3$  is  $117^\circ$ . Find  $m\angle 6$  and  $m\angle 7$ .

$m\angle 6 = 117^\circ$  because it's alternate interior with  $\angle 3$

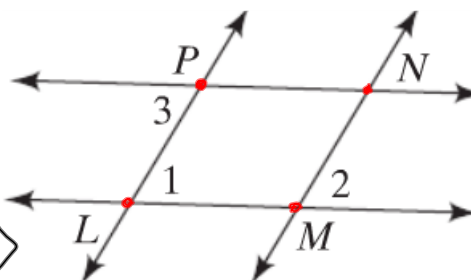
$m\angle 7 = 117^\circ$  because it's corresponding with  $\angle 3$

## Identifying Parallel Lines

In the diagram,  $m\angle 1 = 60^\circ$ ,  $m\angle 2 = 60^\circ$ , and  $m\angle 3 = 60^\circ$ .

Explain how you know  $LP \parallel MN$  and  $LM \parallel PN$ .

$m\angle 1 = 60^\circ$   
 $m\angle 2 = 60^\circ$   
 $m\angle 3 = 60^\circ$



$LP \parallel MN$   
 because  $\angle 1$  and  $\angle 2$  are congruent corresponding angles.

$MN \parallel LP$   
 because  $\angle 1$  and  $\angle 3$  are congruent alternate interior angles.



# Assignment

## 8th Grade Lesson 7-2b

Pgs. 220-221 #20-24 even,  
25-27 all, 29, 30