





NYS COMMON CORE MATHEMATICS CURRICULUM Lesson 12 8-2
<ol> <li>Identify all pairs of corresponding angles. Are the pairs of corresponding angles equal in measure? How do you know?</li> </ol>
<ol><li>Identify all pairs of alternate interior angles. Are the pairs of alternate interior angles equal in measure? How do you know?</li></ol>
3. Use an informal argument to describe why $\angle 1$ and $\angle 8$ are equal in measure if $L_1 \parallel L_2$ .
4. Assuming $L_1 \parallel L_2$ if the measure of $\angle 4$ is 73°, what is the measure of $\angle 8$ ? How do you know?
5. Assuming $L_1 \parallel L_2$ , if the measure of $\angle 3$ is 107° degrees, what is the measure of $\angle 6$ ? How do you know?
6. Assuming $L_1 \parallel L_2$ , if the measure of $\angle 2$ is 107 <sup>-</sup> , what is the measure of $\angle 7$ ? How do you know?
7. Would your answers to Problems 4–6 be the same if you had not been informed that $L_1 \parallel L_2$ ? Why or why not?
8. Use an informal argument to describe why $\angle 1$ and $\angle 5$ are equal in measure if $L_1 \parallel L_2$ .
9. Use an informal argument to describe why $\angle 4$ and $\angle 5$ are equal in measure if $L_1 \parallel L_2$ .
10. Assume that $L_1$ is not parallel to $L_2$ . Explain why $\angle 3 \neq \angle 7$ .
COMMON CORE Lesson 12: Angles Associated with Parallel Lines engage <sup>ny</sup> 5.66
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