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| **LG #** | **G03** | **Standards:** | **G-CO.3.9, G-CO.3.10, G-CO.3.11** |
| **4.0** | **In addition to Score 3.0, in-depth inferences and applications that go beyond instruction to the standard.**  **The student will be able to:**   * Prove triangles are congruent using properties of parallelograms. * Prove a figure is a parallelogram using properties of congruent triangles.   **No major errors or omissions regarding the score 4.0 content.** | | |
| **3.5** | In addition to 3.0, in-depth inferences and applications with partial success. | | |
| **3.0** | **Students will be able to prove geometric theorems.**  **The student will be able to:**   * [Prove theorems about lines (i.e. points on a perpendicular bisector of a line segment are exactly those equidistant from the segment’s endpoints). (G-CO.3.9)](http://www.cpalms.org/Public/PreviewResource/Preview/60313) * Prove theorems about angles (i.e. [vertical angles are congruent](http://www.cpalms.org/Public/PreviewResource/Preview/56788); when a transversal crosses parallel lines, [alternate interior angles are congruent](http://www.cpalms.org/Public/PreviewResource/Preview/56789) and corresponding angles are congruent). (G-CO.3.9) * Prove theorems about triangles (i.e. [measures of interior angles of a triangle sum to 180°](http://www.cpalms.org/Public/PreviewResource/Preview/60310); triangle inequality theorem; [base angles of isosceles triangles are congruent](http://www.cpalms.org/Public/PreviewResource/Preview/56830); [the segment joining midpoints of two sides of a triangle is parallel to the third side and half the length](http://www.cpalms.org/Public/PreviewResource/Preview/57196); [the medians of a triangle meet at a point](http://www.cpalms.org/Public/PreviewResource/Preview/60439)). (G-CO.3.10) * Prove theorems about parallelograms (i.e. [opposite sides are congruent](http://www.cpalms.org/Public/PreviewResource/Preview/60821), [opposite angles are congruent](http://www.cpalms.org/Public/PreviewResource/Preview/60824), [the diagonals of a parallelogram bisect each other](http://www.cpalms.org/Public/PreviewResource/Preview/60825), and conversely, [rectangles are parallelograms](http://www.cpalms.org/Public/PreviewResource/Preview/60826) with [congruent diagonals](http://www.cpalms.org/Public/PreviewResource/Preview/60827)). (G-CO.3.11)   **No major errors or omissions regarding the score 3.0 content (simple or complex).** | | |
| **2.5** | No major errors or omissions regarding 2.0 content and partial knowledge of 3.0 content. | | |
| **2.0** | **The student recognizes and describes specific terminology such as:**   |  |  |  | | --- | --- | --- | | * Theorems | * Lines | * Angles | | * Vertical Angles | * Congruent | * Transversal | | * Parallel Lines | * Alternate Interior Angles | * Corresponding Angles | | * Perpendicular Bisector * Endpoints * Inequality * Medians * Diagonal | * Equidistant * Triangle * Base Angles * Parallelograms * Rectangle | * Segment * Interior Angles * Isosceles Triangle * Opposite * Converse |   **The student will be able to:**   * Use theorems about lines and angles to solve problems. (G-CO.3.9) * Analyze given diagrams to identify theorems and postulates that may be evident (i.e. vertical angles theorem, triangle exterior angle theorem, or opposite angles of a parallelogram are congruent). (G-CO.3.9, G-CO.3.10, G-CO.3.11) * Use theorems about triangles to solve problems (i.e. measures of interior angles of a triangle sum to 180°; triangle inequality theorem; base angles of isosceles triangles are congruent; the segment joining midpoints of two sides of a triangle is parallel to the third side and half the length; the medians of a triangle meet at a point). (CO.3.10) * Use theorems about parallelograms to solve problems. (i.e. opposite sides are congruent, opposite angles are congruent, the diagonals of a parallelogram bisect each other, and conversely, rectangles are parallelograms with congruent diagonals). (CO.3.11) | | |
| **1.5** | Partial knowledge of the score 2.0 content, but major errors or omissions regarding score 3.0 content. | | |
| **1.0** | With partial understanding of some of the simpler details and processes and some of the more complex ideas and processes. | | |
| **0.5** | With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes. | | |
| **0.0** | Even with help, no understanding or skill is demonstrated | | |