

Unit 7: Similar Triangles

~December 20-January 17

Standards:

G.7 The student, given information in the form of a figure or statement, will prove two triangles are similar.

Topic	I can...	Resources
Ratios and Proportions and Similar Polygons	<ul style="list-style-type: none">✓ write a ratio to compare two quantities.✓ solve a proportion to find the value of a variable.✓ identify congruent angles and proportional side lengths in similar polygons.✓ find unknown side lengths in similar figures.✓ use scale to find unknown side lengths.	<p>From Khan Academy https://www.khanacademy.org/math/pre-algebra/pre-algebra-ratios-rates</p> <p>https://www.khanacademy.org/math/geometry/hs-geo-similarity/hs-geo-solving-similar-triangles/v/similarity-example-problems</p>
Proving Triangles Similar	<ul style="list-style-type: none">✓ determine whether triangles are similar by SSS~, SAS~, or AA~.✓ write similarity statements.✓ find unknown side lengths in similar figures.	<p>https://www.khanacademy.org/math/geometry/hs-geo-similarity</p> <p>From Math Open Ref https://www.mathopenref.com/tocs/similaritytoc.html</p>
Midsegments of Triangles and Proportions in Triangles	<ul style="list-style-type: none">✓ write and solve a proportion when two or more parallel lines intersect other lines.✓ write and solve a proportion when the bisector of an angle of a triangle divides the opposite side into two segments.✓ identify and find the length of the midsegment in a triangle	<p>https://www.mathopenref.com/trianglemidsegment.html</p> <p>Sample Assessment/Review with Solutions Sample Assessment Similarity 19-20.pdf Unit 7 Sample Assessment KEY.pdf</p>