**Similarity/Dilation Unit Test Topics – January 24-29, 2020 Calculator Allowed**

Know definition for similar polygons. Recognize similar figures by definition and write a similarity statement.  
Know that congruence is just similarity with a 1 to 1 ratio.  
Create a dilation of a polygon, figure, or segment using a scale factor and center. Or find the center of a dilation and its scale factor given similar figures. Be able to do this with our without a coordinate plane.  
Write and solve proportions from sketches, words, or just algebraically.  
Know that the midsegment of a triangle creates two similar triangles with a 1 to 2 ratio.  
Know triangle similarity shortcuts SSS, SAS, and AA and use to support an argument for similar triangles.  
Apply parallel proportionality conjectures on pp 398-9 to find unknown segments between parallel lines of triangles AND know when you cannot use these conjectures (like 1-3 on p 400).  
Recognize similar right triangles formed by altitude from right angle and find missing lengths with proportions.

First part of the test is T/F and Multiple Choice on Jan 24-27. Tues-Wed is writing and solving proportions AND dilations.

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