Online Videos

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| Ch. 6 SIMILARITY | |
| 6.1 Ratios, Proportions, and Geometric Mean | [What's a Ratio?](http://www.virtualnerd.com/geometry/similarity/ratios-proportions/ratio-definition)  [What's a Proportion?](http://www.virtualnerd.com/geometry/similarity/ratios-proportions/proportion-definition)  [How Do You Write a Ratio From a Word Problem?](http://www.virtualnerd.com/geometry/similarity/ratios-proportions/word-problem-example)  [What are the Means and Extremes of Proportions?](http://www.virtualnerd.com/geometry/similarity/ratios-proportions/means-extremes-definition)  [What's the Means-Extremes Property of Proportions?](http://www.virtualnerd.com/geometry/similarity/ratios-proportions/means-extremes-proportion-property-definition)  [How Do You Solve a Proportion Using Cross Products?](http://www.virtualnerd.com/geometry/similarity/ratios-proportions/proportion-cross-multiply-example)  [How Do You Find the Angles in a Triangle if You Have a Ratio of Their Measures?](http://www.virtualnerd.com/geometry/similarity/ratios-proportions/triangle-missing-angles-ratio-example)  [How Do You Find a Geometric Mean?](http://www.virtualnerd.com/geometry/right-triangles-trigonometry/similarity/geometric-mean-example) |
| * 1. Use Proportions to solve Geometry Problems | [How Do You Solve a Scale Model Problem Using a Scale Factor?](http://www.virtualnerd.com/geometry/similarity/ratios-proportions/scale-model-scale-factor)  [What is a Scale Drawing?](http://www.virtualnerd.com/geometry/similarity/ratios-proportions/scale-drawing-definition)  [What is a Scale?](http://www.virtualnerd.com/geometry/similarity/ratios-proportions/scale-definition)  [How Do You Find the Scale of a Model?](http://www.virtualnerd.com/geometry/similarity/ratios-proportions/find-scale-model)  [How Do You Solve a Scale Model Problem Using a Proportion?](http://www.virtualnerd.com/geometry/similarity/ratios-proportions/proportion-word-problem-example)  [What's the Means-Extremes Property of Proportions?](http://www.virtualnerd.com/geometry/similarity/ratios-proportions/means-extremes-proportion-property-definition)  [How Do You Solve a Proportion Using Cross Products?](http://www.virtualnerd.com/geometry/similarity/ratios-proportions/proportion-cross-multiply-example) |
| 6.3 Use Similar Polygons | [What are Similar Figures?](http://www.virtualnerd.com/geometry/similarity/polygons/similar-figures-definition)  [How Do You Find a Scale Factor in Similar Figures?](http://www.virtualnerd.com/geometry/similarity/polygons/find-scale-factor-similar-figures)  [What are Corresponding Parts in Similar Figures?](http://www.virtualnerd.com/geometry/similarity/polygons/definition-corresponding-parts-similar-figures)  [How Do You Find Missing Measurements of Similar Figures Using a Proportion?](http://www.virtualnerd.com/geometry/similarity/polygons/similar-figures-missing-measurement-example) |
| 6.4 Prove Triangles are Similar by AA | <https://www.youtube.com/watch?v=P37OSyTvbvM> – Triangle Similarity by AA, SSS, and SAS |
| 6.5 Prove Triangles Similar by SSS and SAS | <https://www.youtube.com/watch?v=P37OSyTvbvM> – Triangle Similarity by AA, SSS, and SAS |
| 6.6 Use Proportionality Theorems | [How Do You Use the Triangle Proportionality Theorem to Find Missing Lengths in a Diagram?](http://www.virtualnerd.com/geometry/similarity/parallel-lines-proportional-parts/practice-triangle-proportionality-theorem) |
| 6.7 Perform Similarity Transformations | [What is a Dilation?](http://www.virtualnerd.com/geometry/similarity/dilations-transformations/dilation-example) |