

The Common Denominator

A Family Math Newsletter

Geometry Unit 8: Similarity

Unit at a Glance



Students apply their earlier experience with dilations and proportional reasoning to build a formal understanding of similarity. They identify criteria for similarity of triangles and use similarity to solve problems. The following topics will be studied:

Topic	Length	Geometry Text Section(s)
Topic A: Ratio and Proportion	Academic: 0.5 (90-minute) lesson Honors: 0.5 (90-minute) lesson	7.1
Topic B: Ratios in Similar Polygons	Academic: 1 (90-minute) lesson Honors: 1 (90-minute) lesson	7.2
Topic C: Triangle Similarity: AA, SSS, and SAS	Academic: 1 (90-minute) lesson Honors: 1 (90-minute) lesson	7.3
Topic D: Applying Properties of Similar Triangles	Academic: 1 (90-minute) lesson Honors: 1 (90-minute) lesson	7.4
Topic E: Using Proportional Relationships	Academic: 1 (90-minute) lesson Honors: 1 (90-minute) lesson	7.5
Topic F: Dilations and Similarity in the Coordinated Plane	Academic: N/A (90-minute) lesson Honors: 1 (90-minute) lesson	7.6, 12.7

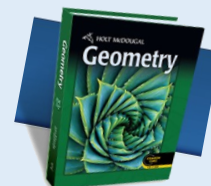
Resource Toolkit

Homework Help

Digital resources exist in the HMH online textbook that can support student learning outside of the classroom. To access these resources, students can log into HMH through BCPS One Digital Content, then select “Student Resources”. The “Homework Helper” resource has a mini-lesson, then guided practice problems for students to complete that can help reinforce concepts that were learned in class. Also, check the “Videos & Activities” section where other beneficial resources can be found.

Khan Academy Videos

- Topic B: [Similarity](#)
- Topic C: [Triangle Similarity](#)
- Topic D: [Applying Properties of Similar Triangles](#)
- Topic E: [Using Similar Triangles](#)
- Topic F: [Dilations in the Coordinate Plane](#)



Exploring Mathematics

Use similar triangles to help estimate the height of a tall object. Watch this YouTube video on [Indirect Measurement Using Similar Triangles](#). After you find a height, discuss if your answer makes sense and summarize the process with your student. In Unit 9, there will be an alternative way to find the height of a tall object, so keep your calculations handy so that you can compare the two methods.



“In every day, there are 1,440 minutes. That means we have 1,440 daily opportunities to make a positive impact.”

– Les Brown