

Teacher / Team Name: Geometry Honors

Topic: Unit 7: Proportions and Similarity (HON)

Days: 13

Subject(s): Math

Grade(s): 8th, 9th, 10th, 11th, 12th

Key Learning: Similar figures and their scale factors will be used to write proportions to solve problems.



Unit Essential Question(s): How are similar figures and their scale factors used to write proportions to solve problems?

Concept:
Ratios and Proportion

Concept:
Similar Figures

Lesson Essential Question(s):
How do you use ratios to solve problems involving proportions and similar figures? (A)

How do you use proportional lengths within triangles to find segment measures? (A)

How do you interpret scale models and use scale factors to solve problems? (A)

Lesson Essential Question(s):
How do you solve problems using the properties of similar polygons? (A)

How do you identify similar triangles using AA, SSS, SAS similarity? (A)

How can you recognize and use proportional relationships of similar triangles? (A)

How do you verify similarity after a similarity transformation? (A)

Vocabulary:
ratio, proportion, cross product, midsegment of a triangle, scale model, scale drawing

Vocabulary:
similar polygons, similar ratio, scale factor, dialation, similarity transformation, scale factor

Additional Information:

Sections: 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7

Attached Document(s):

Teacher / Team Name: Geometry Honors

Vocab Report for Topic: Unit 7: Proportions and Similarity (HON)

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Concept: Ratios and Proportion

- ratio -
- proportion -
- cross product -
- midsegment of a triangle -
- scale model -
- scale drawing -

Concept: Similar Figures

- similar polygons -
- similar ratio -
- scale factor -
- dilation -
- similarity transformation -
- scale factor -