

Week Dec 16-17 Lesson Overview -- Geometry

Monday -

Watch and copy the following examples on similar triangles from Kuta

- <https://www.youtube.com/watch?v=PDSFT6Dt4yA>
- <https://www.youtube.com/watch?v=xEcnTiOtkQE>
- <https://www.youtube.com/watch?v=HlbfFHfJnDM>

Worksheet with condensed answers off this link

- <https://cdn.kutasoftware.com/Worksheets/Geo/7-Similar%20Triangles.pdf>

Tuesday -

- Review the worksheets from yesterday on checking for similar triangles by AAA, SSS, or SAS configuration with proportional sides.
- Use also the Guided practice on sections 1-3 using Soft Practice Book pg. 127-132

Week continue Dec 18-20 Lesson Overview --

Geometry

Wednesday: Quiz on similar figures, including short cuts on triangles

Thursday: Makeup Day

Friday: No classes as Christmas Activities with Early Dismissal - Merry Christmas

Objectives/Standards/ Learning Targets for Dec 11-19

Section 8.1: Similar Polygons

Common Core State Standards: G.SRT.A.2, G.SRT.B.5

Learning Target: Understand the relationship between similar polygons.

Success Criteria

- Use similarity statements.
- Find corresponding lengths in similar polygons.

Section 8.2: Proving Triangle Similarity by AA

Common Core State Standards: G.SRT.A.3, G.SRT.B.5

Learning Target: Understand and use the Angle-Angle-Similarity Theorem.

Success Criteria

- Use similarity transformations to prove the Angle-Angle Similarity Theorem.
- Use angle measures of triangles to determine whether triangles are similar.
- Prove triangle similarity using the Angle-Angle Similarity Theorem.

Note: At this time, perimeter and area theorems will not be covered, nor application word problems nor formal proofs.

Section 8.3: Proving Triangle Similarity by SSS and SAS

Common Core State Standards: G.SRT.B.5, G.GPE.B.5

Learning Target: Understand and use additional triangle similarity theorems.

Success Criteria

- Use the SSS and SAS similarity theorems to determine whether triangles are similar.

8.1 & 8.2

BOARD NOTES

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8.2 Triangle • Similar AAA works to Prove Similar

Chapter 5: • Congruent: SSS SAS ASA AAS HL

Chapter 8: Similar 8.1

① Same shape corresponding angles are congruent from one figure to next figure

② Sides in Proportion Fraction

Scale Factor $K = \frac{\text{new}}{\text{old}}$

not distorted $K = \frac{\text{2nd}}{\text{1st}}$

Corresponding Sides

• Find missing side from similar figures

① Setup: $\frac{x}{15} = \frac{4}{20}$ Reduce or Enlarge

② Solve by Cross Multiply

