

Week Dec 16-17 Lesson Overview -- CP 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.
- Review CONGRUENT Triangle PROOF test -- will test more on THURS. As linking it to this SIMILAR
- Use also the Guided practice on sections 1-3 using Soft Practice Book pg. 127-132 Guided practice on sections 1-3 using Practice Book
 - pg 127 #1-3,
 - Pg 129, # 1,2,10,11
 - Pg 131 #1-5

Lesson Week Dec 18-20 ---- CP Geometry

Wednesday - Finish with Soft Practice Book

Thursday - TEST

Friday - Christmas Activities with early dismissal

January 15&16 Semester MIDTERM exam

Objectives/Standards/ Learning Targets for Dec 16-20

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

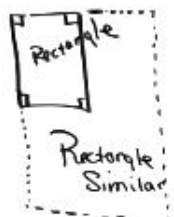
metry

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 (all angles are congruent from one figure to next figure)
- ② Sides in Proportion Fraction
 - Scale Factor $K = \frac{\text{new}}{\text{old}}$
 - not distorted $K = \frac{2^{\text{nd}}}{1^{\text{st}}}$



• Find missing side from similar figures

- ① Setup: $\frac{x}{15} = \frac{4}{20}$ Reduce or Enlarge
- ② Solve by Cross Multiply