

Geometry

Week of Dec 4-8, 2023

General Class Periods 4&5

Last Week Overview

Congruent Triangles from 3 elements: SSS, SAS, AAS, ASA, or HL

Mainly from chapter 5 in our textbook.

This Week Overview

Congruent Polygons versus Similar Triangles from 3 elements: SSS, SAS, AAA

Mainly from chapter 5 & 7 in our textbook.

Next Week Overview

Test on Congruent Polygons versus Similar Triangles from 3 elements: SSS, SAS, AAA

Tesselation Project - if time

Objectives

Textbook sections

Chapter 5 Section 2 --- Congruent Polygons

Chapter 8 Sections 1 thru 3

ASSESSMENT ANCHOR

G.1.3 Congruence, Similarity, and Proofs

Anchor Descriptor		Eligible Content	
G.1.3.1	Use properties of congruence, correspondence, and similarity in problem-solving settings involving two- and three-dimensional figures.	G.1.3.1.1	Identify and/or use properties of congruent and similar polygons or solids.
		G.1.3.1.2	Identify and/or use proportional relationships in similar figures.

Geometry Lesson 8.1 – Day 1: Similar Polygons

Essential Question: How are similar polygons related?

Lesson Objective(s): Students will use similarity statements.
Students will find corresponding lengths in similar polygons.
Students will find perimeters and areas of similar polygons.
Students will decide whether polygons are similar.

Lesson Objective(s): Students will use the Side-Side-Side Similarity Theorem.
Students will use the Side-Angle-Side Similarity Theorem.
Students will prove slope criteria using similar triangles.

Previous Learning: Students have proven triangles similar by using the definition of similarity and by using the Angle-Angle Similarity Theorem.

Monday

Watch the Edpuzzle on learning about congruent polygons.

Complete the following online bigideasmath.com 5.2 Practice

1	2	3*	4	5	6	7	8	9*	10
11*	12	13*	14	15*	16	17	18	19	20
21	22	23	24	25	26	27	28	29	

Tuesday

Watch the Edpuzzle on learning about similar polygons.

<https://edpuzzle.com/assignments/657662d331bbc741792d113d/students>

Complete the following online bigideasmath.com 8.1 Practice

1	2	3*	4	5*	6	7*	8	9*	10
11	12	13	14	15	16	17*	18	19*	20
21*	22	23	24	25*	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60

Wednesday - Review the previous day's work

Student Journal Notes: **8.1 pg 220 # 1-6** -- do as warmup

5.2 pg 131-132 -- guided notes

8.1 Pg 225 -- guided notes

Congruent vs Similar is the difference in finding the sides, not the angles

Congruent = in every way (angles and sides) by orientation

Similar = fractions, proportions, scale factors (new to old)

Perimeter is same scale factor but Area is squared scale factor

Thursday - worksheet day

Practice A and Puzzletime from 8.1 and 5.2

Friday - Similar Triangles need only 3 elements to check

AAA - works only on triangles that all angles match up congruent, then sides in proportion

SAS - included angle with its 2 sides proportional

SSS- 3 proportional sides

Use student journal pg 229, 230, 234, 235 for guided notes

Projected Next week

Monday - worksheet day for chapter 8.2 and 8.3 and probably kuta

Tuesday - more work on reviewing similarity and congruency

Wednesday - test day for this past week

Thursday - Tessellation project (Homework) / Test day makeup

Friday - Christmas Activities