## **CP Geometry**

Week of Dec 4-8, 2023

College Prep Class Period 3

#### Last Weeks Overview --- see previous slideshow

#### Last Week --Student journal pgs. 125-127, 140-142

- Chapter 5 Section 1 on Triangle classification and sum 180 degrees
- Chapter 5 Section 4 on ISOSCELES triangle relationships and EQUIlateral/angular triangles
- Watch short video song <a href="https://www.youtube.com/watch?v=JQUTVgT9RXY">https://www.youtube.com/watch?v=JQUTVgT9RXY</a>
- Kuta Finding missing angles in triangles worksheet

**HW weekend --** Puzzletime for sections 5.1 & 5.4

#### Overview for week

Monday: Section 6.5 Side Angle relationship of Triangles

Tuesday: Online Practice Reviews

Wednesday: Review Practice Reviews and worksheets

Thursday: Test on Triangles (5.1, 5.4, & 6.5)

Friday: Section 5.3 Congruence in Triangles - Online Lab started

# Monday Chapter 6.5 --- Angle to Opposite side of triangle relationship

- Warmup w/ START thinking, WARMUP, & REVIEW pg. 214 Resource section
   6.5
- Check and review the puzzletime worksheet from homework
- Notes on the relationship of angle and opposite sides of triangle from smallest to largest. Sketch or draw to scale a few examples to demonstrate concept.
- Watch video to demonstrate Triangle Inequality: https://www.youtube.com/watch?v=oNR7wtdJhYk
- Student journal pg. 187-188 for notes and examples
- Complete Practice A Section 6.5 #1-6

## Tuesday - online assignments

SECTION	5.1 Practice	
5.1	Geometry: CC 2015	Angles of Triangles
W-1 1	Problem Set: Custom (35/57)	Students: All
EXERCISES	Start: 12/04/2023 12:00PM	Due: 12/06/2023 8:30AM
SECTION	5.4 Practice	
5.4	Geometry: CC 2015	Equilateral and Isosceles Triangles
5.4	Problem Set: Custom (14/44)	Students: All
EXERCISES	Start: 12/04/2023 12:00PM	Due: 12/06/2023 9:30AM
SECTION	6.5 Practice	
CE	Geometry: CC 2015	Indirect Proof and Inequalities in One Triangle
C.O	Problem Set: Custom (17/53)	Students: All
EXERCISES	Start: 12/04/2023 12:30PM	Due: 12/06/2023 9:31AM

35+14+17 = 66 problems but some are 5 second problem identifications.

Finish for homework for Wednesday, then study for test Thursday.

## Tuesday Assignment into homework #1



## Tuesday Assignment into homework #2



## Tuesday Assignment into homework #3



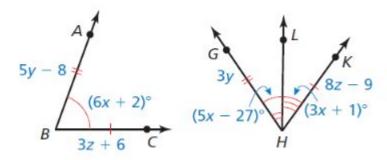
## Challenge for Wednesday as opener

Check and review online problems and worksheets.

Study for test today --- make summary notes to keep for midterm exam.

#### Do this one

Use the diagram to find the length of  $\overline{BO}$ .



#### Thurs. Test on sections:

.esson Objective(s): Students will classify triangles by sides and angles.	CC State
Students will find interior and exterior angle measures of triangles.  Previous Learning: Students should be familiar with both theorems presented in this lesson. There are many explorations students may have done in middle school to discover that the sum of interior angles of a triangle is 180° and that the measure of an exterior angle of a triangle is equal to the sum of the two nonadjacent interior angles.  New Vocabulary: interior angles, exterior angles, corollary to a theorem	HSG-CO.C.10 HSG-MG.A.1
esson Objective(s): Students will use the Base Angles Theorem.	CC State
Students will use isosceles and equilateral triangles.	Standards
Previous Learning: Students previously learned about isosceles and equilateral triangles.	
New Vocabulary: legs, vertex angle, base, base angles	HSG-CO.C.10
Materials for Teacher: none	HSG-CO.D.13
Materials for Students: graph paper, dynamic geometry software	HSG-MG.A.1
Objective/object	00.01-1-
.esson Objective(s): Students will list sides and angles of a triangle in order by size. Students will use the Triangle Inequality Theorem to find possible side	CC State Standards
lengths of triangles.	HSG-CO.C.10

#### Friday:

Drawing Triangles from 3 pieces of information--- adjusted material from sections 5.3, 5.5, and 5.6

- Use site and online document for making screen shots of work from site
- https://www.nctm.org/Classroom-Resources/Illuminations/Interactives/Congruence-Theorems/

#### FRIDAY start:

3 sections from chapter 5 on TRIANGLE Congruence (3,5,6)

Geometry Less	on 5.3: Province	Triangle	Congruence by	V SAS
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Essential Question: What can you conclude about two triangles when you know that two pairs of corresponding sides and the corresponding included angles are congruent?

Lesson Objective(s): Students will use the Side-Angle-Side (SAS) Congruence Theorem.  Students will solve real-life problems.	CC State Standards	CC Mathematical Practice Focus
Previous Learning: Students are familiar with congruent figures. They have learned that all pairs		
of corresponding parts must be congruent in order to show figures are	HSG-CO.B.8	MP3, MP5
congruent.	HSG-MG.A.1	The second second

#### Geometry Lesson 5.5 – Day 1: Proving Triangle Congruence by SSS

Essential Question: What can you conclude about two triangles when you know the corresponding sides are congruent?

Lesson Objective(s): Students will use the Side-Side (SSS) Congruence Theorem.	CC State	CC Mathematical
Students will use the Hypotenuse-Leg (HL) Congruence Theorem.	Standards	Practice Focus
Previous Learning: Students previously proved triangles congruent using the SAS Congruence		
Theorem. The terminology and notation should be familiar.	HSG-CO.B.8	MP3, MP5
New Vocabulary: legs, hypotenuse	HSG-MG.A.1	and the second second second
Previous Vocabulary: congruent figures, rigid motion	HSG-MG.A.3	

#### Geometry Lesson 5.6 – Day 1: Proving Triangle Congruence by ASA and AAS Essential Question: What information is sufficient to determine whether two triangles are congruent?

Lesson Objective(s): Students will use the ASA and AAS Congruence Theorems.	CC State	CC Mathematical
Previous Learning: Students previously learned how to prove triangles congruent using SAS,	Standards	Practice Focus
SSS, and HL. The terminology and notation should be familiar.	STATE OF THE STATE	CONTRACTOR AND
Previous Vocabulary: congruent figures, rigid motion	HSG-CO.B.8	MP3, MP5
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