

# CP Geometry

Week Dec 18-22,2023

**Week Dec. 18-22** depending on Dec 15 Test maybe pushed to Wed.

**Monday** - Lesson on indirect measurements with CPCTC and complete bigideasmath.com online assignments

**Tuesday** - **ASVAB** testing for 10th graders so 9th graders will make a tessellation paper and decorate it for Christmas theme

**Wednesday** - Review online assignments and complete discuss test on congruent triangles.

**Thursday** - **Test** on Congruence in Triangles with applications

**Friday - Christmas Activities with an early dismissal**

# Monday Dec 18: CPCTC

Use Student Journal for applications with congruent triangles

Pg 153-157

Congruent Parts of Congruent Triangles are Congruent

Is used in indirect measurements as 3 items of triangle is in the setup of 2 congruent triangles and then measure only one triangle to find the other measurements.

Complete online

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					

# Congruence in Triangles:

## Review from last week

Watch video: <https://www.youtube.com/watch?v=vGuiy7NnJIM&t=191s>

SSS SAS ASA AAS Congruence <https://www.youtube.com/watch?v=KCWCFERV3jE>

SSS SAS Congruence <https://www.youtube.com/watch?v=tCRK0CzL-Tc>

<https://www.youtube.com/watch?v=h3IBhWJF0Kw>

## Student Journal

- 5.3 Section Pg 136-137
- 5.5 Section Pg 146-147
- 5.6 Section Pg 151-152

# Triangle Congruence by SSS, SAS, ASA, AAS, or HL

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.
Anchor Descriptor	Eligible Content
G.1.3.2 Write formal proofs and/or use logic statements to construct or validate arguments.	G.1.3.2.1 Write, analyze, complete, or identify formal proofs (e.g., direct and/or indirect proofs/proofs by contradiction).

Triangles need 3 components in the order of either:

- Side-Side-Side
- Angle-Side-Angle
- Angle-Angle-Side
- Side-Angle-Side
- Hypotenuse-Leg as right triangle

CPCTC: Congruent Parts of Congruent Triangles are then Congruent also.

# Tessellation Project

Reoccurring pattern

Start with a square

Cut out side piece and move for

A reflection, rotation, translation

Color piece with a face, etc and repeat to make a pattern

