Geometry

Week of Dec 18, 2023

General Class Periods 4&5

Projected for the week

Monday - LESSON on ways to show triangles similar by three items

Tuesday - worksheet day for chapter 8.2 and 8.3 and kuta generated

    -- homework for those who are taking ASVAB

Wednesday - review worksheets and set up notes for test.

Thursday - Test on similarity in polygons

Friday - Christmas Activities

Objectives

Textbook sections

Chapter 5 Section 2 --- Congruent Polygons

Chapter 8 Sections 1 thru 3

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 - 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

8.1 Practice A

Find value of x

Setup proportion equation

Find the value of x. Show work/equation setup

4.

25.5

12

8

15   17

x

$$\frac{x}{15} = \frac{12}{8}$$

Solve

$$8x = 12(15)$$
$$\frac{}{8}$$
$$x = 22.5$$