Week Overview Nov 4-8   Chapter 5 Triangles - pd 1 & 4

Monday - Warmup in HANDOUT packet #11-14 pg 15 which "classify each triangle - use 2 terms per problem

- Use handout pg 7 titled "kuta…Isosceles…" to discuss terms and 2 angles given a 3rd can be found to plan out.
- An exception is if the vertex angle is given on an isosceles, then 2 base angles are the same even split.
- Do online Dynamic Classroom 5.4 Practice section # 1-8, 17 (unfinished work from last week)

Tuesday -

- Warmup finish online 5.4 -- and then pg 8 and 9 from handout.
- Review packet for any missing items to cover and review.

Wednesday - See google classroom for a worksheet, edpuzzle, and kahoot homework assignment to review for test.

Thursday

- **Quiz** on sections 5.1 & 5.4 Triangle Angle Sums and Classifications
- Then watch Dynamic Classroom video examples and copy onto handout for notes for section 5.2

Friday -

- Warmup in Practice Soft Book pg 73 # 1-2 by color coding and giving ONE set of sides and ONE set of angles congruent.
- Notes teacher-led on pg 73 to finish up notes into handout extra practice and puzzle time 5.2 to complete

Week's Objectives for Thursday Quiz

Section 5.1: Angles of Triangles

Common Core State Standards: G.CO.C.10
Learning Target: Prove and use theorems about angles of triangles.
Success Criteria
- Classify triangles by sides and by angles.
- Prove theorems about angles of triangles.
- Find interior and exterior angle measures of triangles.

Vocabulary: interior angles, exterior angles, corollary to a theorem

Section 5.4: Equilateral and Isosceles Triangles

Common Core State Standards: G.CO.C.10
Learning Target: Prove and use theorems about isosceles and equilateral triangles.
Success Criteria
- Prove and use theorems about isosceles triangles.
- Prove and use theorems about equilateral triangles.

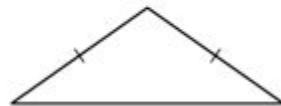**Vocabulary:** legs of an isosceles triangle, vertex angle, base, base angles

EXAMPLE Classifying Triangles by Sides and by Angles

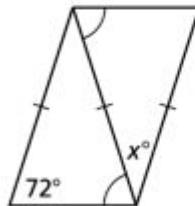Classify each triangle by its sides and by measuring its angles.

a.

b.

In Exercises 1 and 2, find the value of x.

1.

$x°$

$72°$

Thurs-Friday Objectives Sample
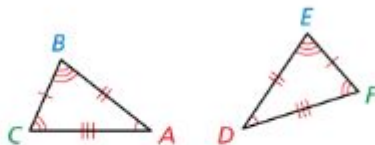
Section 5.2: Congruent Polygons

Common Core State Standards: G.CO.B.7
Learning Target: Understand congruence in terms of rigid motions.
Success Criteria
- Use rigid motions to show that two triangles are congruent.
- Identify corresponding parts of congruent polygons.
- Use congruent polygons to solve problems.

Vocabulary: corresponding parts

Review the polygon names and interior angle sum from chapter 1:

Quadrilateral is 4 sides with interior sum = 360.

Pentagon, etc.

Corresponding angles

Corresponding sides

$\angle A \cong \angle D, \angle B \cong \angle E, \angle C \cong \angle F$

$\overline{AB} \cong \overline{DE}, \overline{BC} \cong \overline{BC}, \overline{AC} \cong \overline{DF}$

In the diagram, $DEFG \cong SPQR$.

a. Find the value of x.

b. Find the value of y.

8 ft

$102°$

$84°$ $68°$

12 ft

$(2x - 4)$ ft

$(6y + x)°$