

11/26 Geometry



(1) Have your compass on your desk to be checked.

(2) Follow instructions on today's handout. **DO NOT WRITE ON HANDOUT!!!**

😊😊😊😊 Today is a GREAT day to think mathematically! Let's get organized first. 😊😊😊😊

TABLE OF CONTENTS: **11/26 Triangle Angle Relationships**

NEW NOTEBOOK PAGE: **11/26 Triangle Angle Relationships - Name**
SLO: I can prove theorems about triangle angle relationships.

Assignment Sheet: **11/26 CW: Triangle Angle Relationships Due 11/26**
11/26 HW: Triangle Angle Relationships Due 11/27

DO NOW SHEET: **Name, Date, Period, and write the converse, inverse, & contrapositive of the statement:**
"If a triangle has two congruent sides, then the triangle is isosceles."

SLO: I can prove theorems about triangle angle relationships.

G.G.

11/26 Announcements

1. You will be earning points every day for having a compass.
2. .

SLO: I can prove theorems about triangle angle relationships.

G.G.

11/26 Geometry



SLO: I can prove theorems about triangle angle relationships.
G.G.

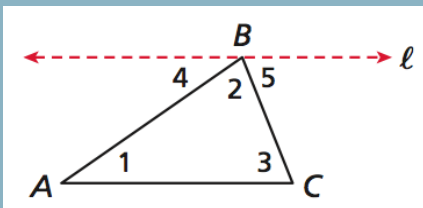
11/26 HW Check & Questions from 11/19

SLO: I can prove theorems about triangle angle relationships.

G.G.

11/26 Geometry

SLO: I can prove theorems about triangle angle relationships.
G.G.



If ABC is a triangle then
 $m\angle 1 + m\angle 2 + m\angle 3 = 180^\circ$

Draw $\ell \parallel \overline{AC}$ through B.

Parallel Post.

$$\angle 1 \cong \angle 4$$

Alt. Int. angles Thrm.

$$m\angle 1 = m\angle 4$$

def. of congruent

$$\angle 3 \cong \angle 5$$

Alt. Int. angles Thrm.

$$m\angle 3 = m\angle 5$$

def. of congruent

$$m\angle 4 + m\angle 2 + m\angle 5 = 180^\circ$$

Straight angle and
angle addition

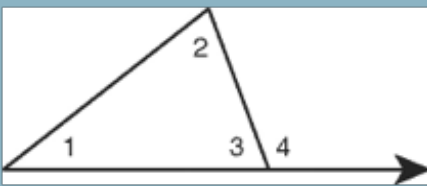
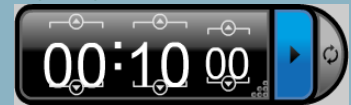
$$m\angle 1 + m\angle 2 + m\angle 3 = 180^\circ$$

substitution

11/26 Geometry

SLO: I can prove theorems about triangle angle relationships.

G.G.



If angle 4 is an exterior angle of a triangle, then the sum of the of remote interior angles 1 and 2 is equal to the measure of angle 4.

$$m1 + m2 + m3 = 180$$

Triangle sum thrm.

$$m3 + m4 = 180$$

Linear Pair supplementary

$$m1 + m2 = m4$$

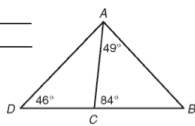
substitution

11/20 Geometry

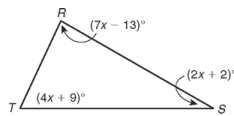


CW: In your notebook, find each measure below.

- $m\angle ABC =$ _____
- $m\angle CAD =$ _____



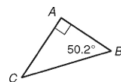
- $x =$ _____
- $m\angle R =$ _____
- $m\angle W =$ _____
- $m\angle T =$ _____



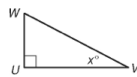
- $m\angle L =$ _____



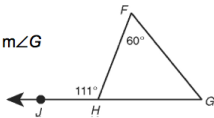
- $m\angle C =$ _____



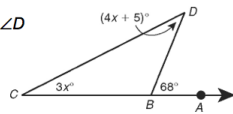
- $m\angle W =$ _____



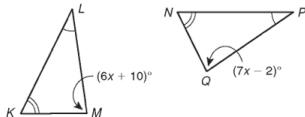
- $m\angle G =$ _____



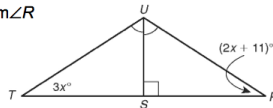
- $m\angle D =$ _____



- $m\angle M$ and $m\angle Q =$ _____



- $m\angle T$ and $m\angle R =$ _____



SLO: I can solve problems by applying theorems about triangle angle relationships.

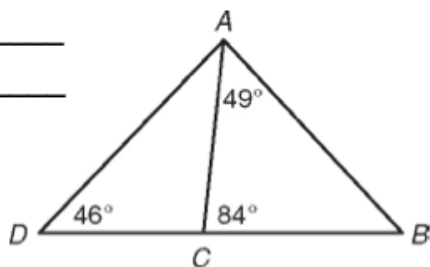
G.G.

11/20 Geometry



1. $m\angle ABC =$ _____

2. $m\angle CAD =$ _____



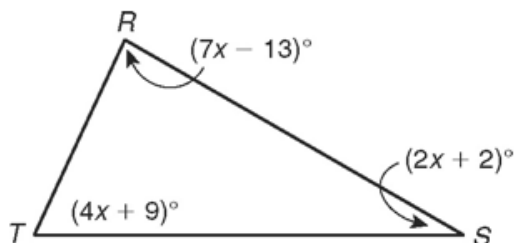
SLO: I can solve problems by applying theorems about triangle angle relationships.

G.G.

11/20 Geometry



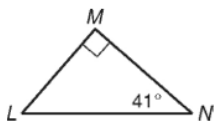
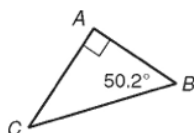
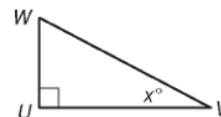
3. $x =$ _____
4. $m\angle R =$ _____
5. $m\angle W =$ _____
6. $m\angle T =$ _____



SLO: I can solve problems by applying theorems about triangle angle relationships.

G.G.

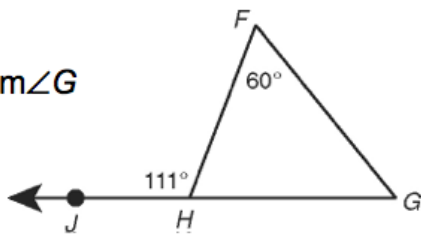
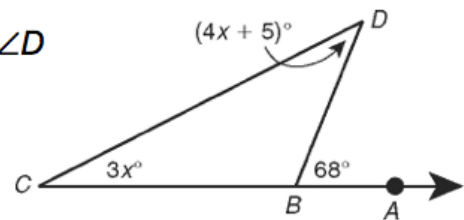
11/20 Geometry

5. $m\angle L$ 6. $m\angle C$ 7. $m\angle W$ 

SLO: I can solve problems by applying theorems about triangle angle relationships.

G.G.

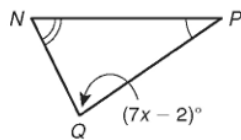
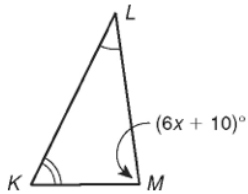
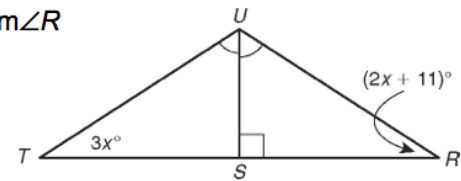
11/20 Geometry

8. $m\angle G$ 9. $m\angle D$ 

SLO: I can solve problems by applying theorems about triangle angle relationships.

G.G.

11/20 Geometry

10. $m\angle M$ and $m\angle Q$ 11. $m\angle T$ and $m\angle R$ 

SLO: I can solve problems by applying theorems about triangle angle relationships.

G.G.

11/20 Geometry

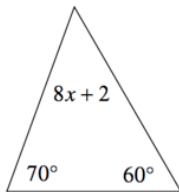


HOMEWORK: Problems under "Friday 11/16" on the homework sheet.

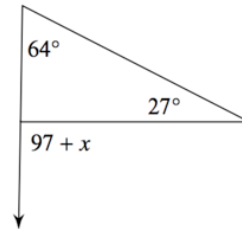
EXIT

BACK OF DO NOW SHEET: Today my level of understanding is 😊 😐 😞 because _____
Identify the theorem you can use to find x and write an equation. Solving the equation for x is extra credit.

(1)



(2)



SLO: I can solve problems by applying theorems about triangle angle relationships.

G.G.

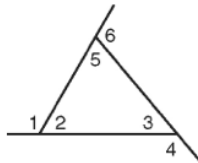
11/20 Geometry



Friday 11/16:

1-3 name all the angles that fit the definition of each vocabulary word. 4-7 write the correct term for each blank

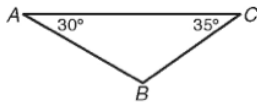
1. exterior angle
2. remote interior angles to $\angle 6$
3. interior angle



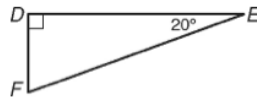
4. The measure of each angle of an _____ triangle is 60° .
5. The sum of the angle measures of a triangle is _____.
6. The acute angles of a _____ triangle are complementary.
7. The measure of an _____ of a triangle is equal to the sum of the measures of its remote interior angles.

8-13 Find the measure of each angle.

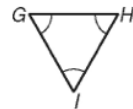
8. $m\angle B$



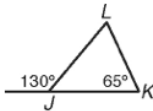
9. $m\angle F$



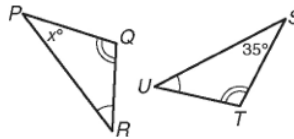
10. $m\angle G$



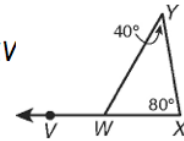
11. $m\angle L$



12. $m\angle P$



13. $m\angle V$



SLO: I can solve problems by applying theorems about triangle angle relationships.

G.G.

Ge 1/19 Geometry



SLO: I can classify triangles based on their properties.
G.G.

11/7 Geometry



Converse

If an angle is a right angle, then it measures 90° .

SLO: I can write the converse, inverse, and contrapositive of a statement and state the truth value of each.

G.G..

11/7 Geometry



Inverse

If two angles are adjacent, then they are a linear pair.

SLO: I can write the converse, inverse, and contrapositive of a statement and state the truth value of each.

G.G..

11/7 Geometry



Contrapositive

If a shape is a triangle, then the sum of its angles is 180° .

SLO: I can write the converse, inverse, and contrapositive of a statement and state the truth value of each.

G.G..

11/7 Geometry



Contrapositive

If two angles are supplementary, then they are a linear pair.

SLO: I can write the converse, inverse, and contrapositive of a statement and state the truth value of each.

G.G..

11/7 Geometry



Inverse

If corresponding angles are not congruent then the lines forming them are not parallel.

SLO: I can write the converse, inverse, and contrapositive of a statement and state the truth value of each.

G.G..

11/7 Geometry

**Converse**

If a line segment is bisected, then the line segment is divided into two equal line segments.

SLO: I can write the converse, inverse, and contrapositive of a statement and state the truth value of each.

G.G.

10/5 Geometry PRIDE

Names & accomplishments

10/16 Ticket Out the Door

SLO: Justify that lines are parallel by comparing slopes on graphs or from equations.

G.G.63 Determine whether two lines are parallel, perpendicular, or neither, given their equations.

Were you 100% focused and engaged during today's lesson?

YES

NO

%

Rate your understanding of today's objective.

4

completely understand

3

mostly understand

2

understand a little

1

a bit confused

0

completely confused

Take a minute to help me gauge your understanding by answering the following question.
SHOW YOUR WORK!!!

What went well for you today during geometry? Why?

9/17 Quiz

Face desks forward and clear desk except for

Communication of any sort = ZERO

RAISE YOUR HAND silently if you need something

CCSS Standard:

9/17 Test

Face desks forward and clear desk except for

Communication of any sort = ZERO

RAISE YOUR HAND silently if you need something

CCSS Standard:

