December 03, 2012

12/3 Geometry

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

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

TABLE OF CONTENTS: **12/3 HL triangle congruence**

NEW NOTEBOOK PAGE: **12/3 HL triangle congruence – Name**
SLO: I can prove triangles are congruent by SSS, SAS, ASA, AAS and HL and know when to use each postulate or theorem.

Assignment Sheet: **12/3 CW: HL triangle congruence Due 12/3**
12/3 HW: HL triangle congruence Due 12/4

DO NOW SHEET: **Name, Date, Period, complete the conditional statement in flowchart format:**
"If a diagram shows parallel lines m and n, transversal t, and alternate interior angles a and b, then _____."

SLO: I can prove triangles are congruent by SSS, SAS, ASA, AAS, and HL and know when to use each postulate or theorem.

G.G.

12/3 Announcements

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

SLO: I can prove triangles are congruent by SSS, SAS, ASA, AAS, and HL and know when to use each postulate or theorem.

G.G.

December 03, 2012

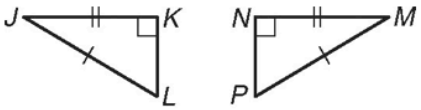
12/3 Geometry

SLO: I can prove triangles are congruent by SSS, SAS, ASA, AAS, and HL and know when to use each postulate or theorem.

G.G.

Notes (Copy into your notebook and draw a box around them)

HL Congruence:



$\triangle JKL \cong \triangle MNP$

The hypotenuse and leg of 1 right triangle are congruent to the hypotenuse and leg of another right triangle

Given

The triangles are congruent

HL $\cong$ theorem

December 03, 2012

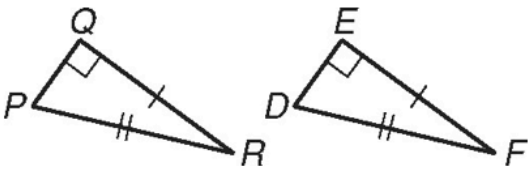
12/3 Geometry

SLO: I can prove triangles are congruent by SSS, SAS, ASA, AAS, and HL and know when to use each postulate or theorem.

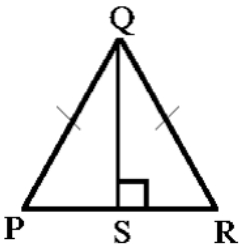
G.G.

Prove that the triangles in each pair are congruent in a flowchart or state why it is not possible to prove they are congruent.

Ex1:



Ex2:



December 03, 2012

12/3 Geometry

SLO: I can prove triangles are congruent by SSS, SAS, ASA, AAS, and HL and know when to use each postulate or theorem.

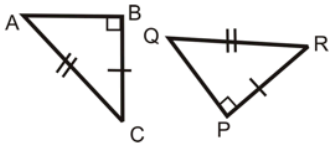
G.G.

FOR THE CLASSWORK YOU MAY NEED TO USE:

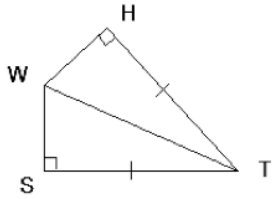
Vertical Angles Theorem
Reflexive Property
Definition of Midpoint
Definition of Bisect

CW: In your notebook, write a flowchart proof to show that the triangles in each pair are congruent.

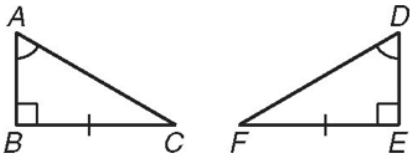
(1)



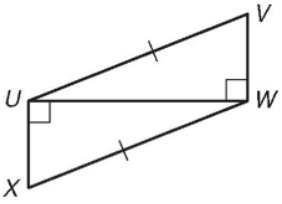
(2)



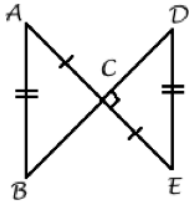
(3)



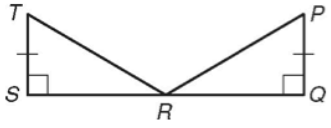
(4)



(5)



(6)



December 03, 2012

12/3 Geometry

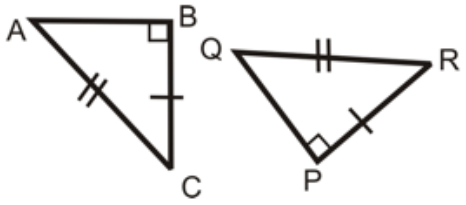
SLO: I can prove triangles are congruent by SSS, SAS, ASA, AAS, and HL and know when to use each postulate or theorem.

G.G.

FOR THE CLASSWORK YOU MAY NEED TO USE:

Vertical Angles Theorem
Reflexive Property
Definition of Midpoint
Definition of Bisect

(1)



December 03, 2012

12/3 Geometry

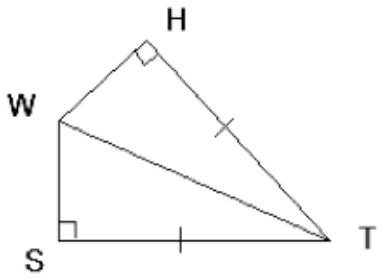
SLO: I can prove triangles are congruent by SSS, SAS, ASA, AAS, and HL and know when to use each postulate or theorem.

G.G.

FOR THE CLASSWORK YOU MAY NEED TO USE:

Vertical Angles Theorem
Reflexive Property
Definition of Midpoint
Definition of Bisect

(2)



December 03, 2012

12/3 Geometry

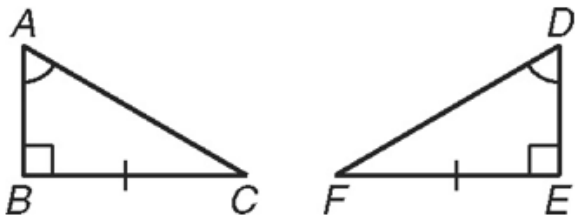
SLO: I can prove triangles are congruent by SSS, SAS, ASA, AAS, and HL and know when to use each postulate or theorem.

G.G.

FOR THE CLASSWORK YOU MAY NEED TO USE:

Vertical Angles Theorem
Reflexive Property
Definition of Midpoint
Definition of Bisect

(3)



December 03, 2012

12/3 Geometry

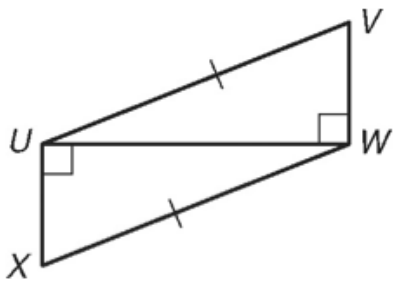
SLO: I can prove triangles are congruent by SSS, SAS, ASA, AAS, and HL and know when to use each postulate or theorem.

G.G.

FOR THE CLASSWORK YOU MAY NEED TO USE:

Vertical Angles Theorem
Reflexive Property
Definition of Midpoint
Definition of Bisect

(4)



December 03, 2012

12/3 Geometry

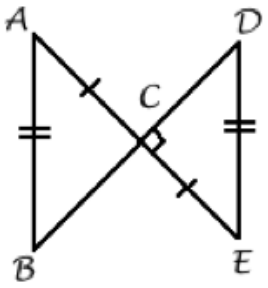
SLO: I can prove triangles are congruent by SSS, SAS, ASA, AAS, and HL and know when to use each postulate or theorem.

G.G.

FOR THE CLASSWORK YOU MAY NEED TO USE:

Vertical Angles Theorem
Reflexive Property
Definition of Midpoint
Definition of Bisect

(5)



December 03, 2012

12/3 Geometry

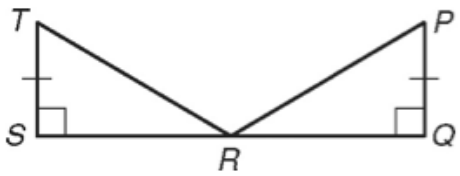
SLO: I can prove triangles are congruent by SSS, SAS, ASA, AAS, and HL and know when to use each postulate or theorem.

G.G.

FOR THE CLASSWORK YOU MAY NEED TO USE:

Vertical Angles Theorem
Reflexive Property
Definition of Midpoint
Definition of Bisect

(6)



December 03, 2012

12/3 Geometry

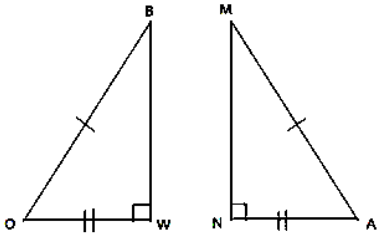
SLO: I can prove triangles are congruent by SSS, SAS, ASA, AAS, and HL and know when to use each postulate or theorem.

G.G.

EXIT

BACK OF DO NOW SHEET: Today my level of understanding is ☺😐☹ because _____

Write a flowchart proof showing that the triangles are congruent.



December 03, 2012

12/3 Geometry

SLO: I can prove triangles are congruent by SSS, SAS, ASA, AAS, and HL and know when to use each postulate or theorem.

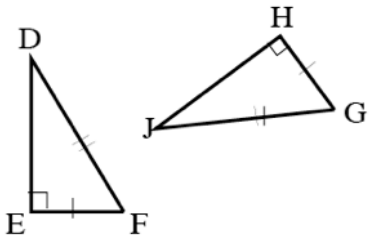
G.G.

Geometry HW 12/3/12 Name_____ Date_____ Per____

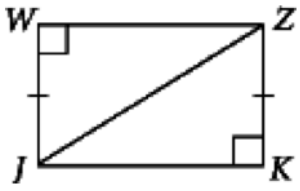
COMPLETE ON A FULL SHEET OF LINED PAPER

Write a flowchart proof showing that the triangles in each pair are congruent or explain why proof is not possible.

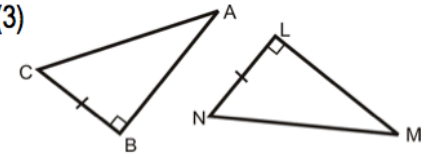
(1)



(2)



(3)

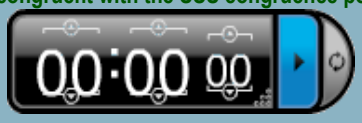


December 03, 2012

11/28 Geometry

SLO: I can prove triangles are congruent with the SSS congruence postulate.

G.G.



http://www.mathopenref.com/congruentsss.html

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	3	2	1	0
completely understand	mostly understand	understand a little	a bit confused	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:

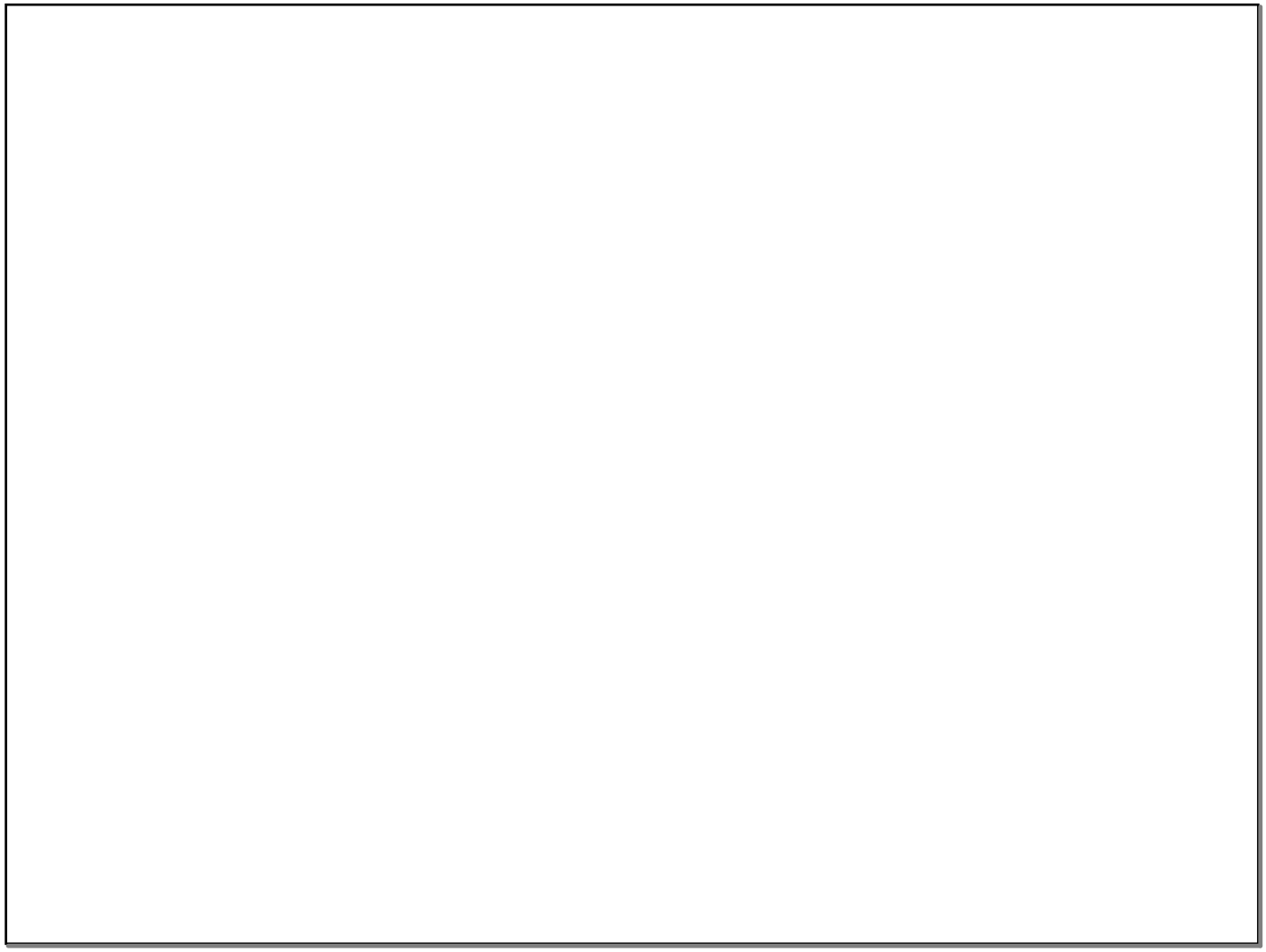
9/17

Test

Face desks forward and clear desk except for

Communication of any sort = ZERO

RAISE YOUR HAND silently if you need something

CCSS Standard:

December 03, 2012