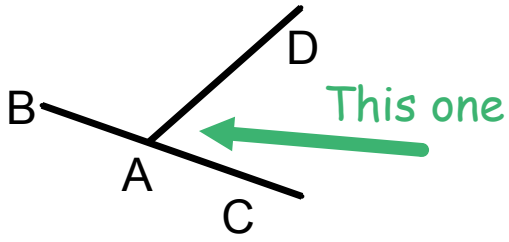
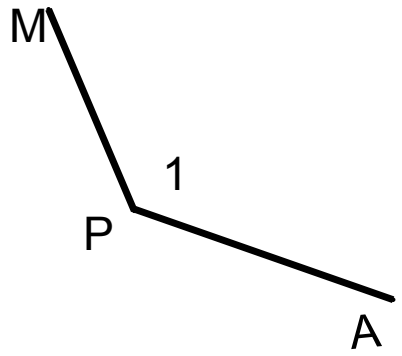
9/19 Do Now

DO NOW Name_____ Date_____ Per_____

(1) COPY THE DIAGRAMS

(2) Name each angle in 2 ways





SLG: Solve for a variable and an angle measure by using angle addition & supplementary & complementary angles.

CCSS Standard:

9/19 Announcements

TEST TUESDAY!

SLG: Solve for a variable and an angle measure by using angle addition & supplementary & complementary angles.
CCSS Standard:

9/19 Assignment sheet

Class _____ Period _____

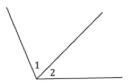
DATE	CLASSWORK ASSIGNMENT	HOMEWORK ASSIGNMENT
9/17	Copying Segments & Bisecting Angles #1-12+practice due 9/17	Copying Segments & Bisecting Angles 6 construction due 9/18
9/18	Angle Addition Exploration & Notes #1-19 odd due 9/18	Angle Addition wksht due 9/19
9/19	Angles Complementary & Supplementary #1-2, 1-7 due 9/19	Angles Complementary & Supplementary #1-8 due 9/20
9/20	due	due
9/21	due	due

SLG: Solve for a variable and an angle measure by using angle addition & supplementary & complementary angles.
CCSS Standard:

9/19 HW Check & Questions

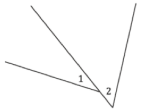
If the pair of angles is adjacent, bubble "T". If not, bubble "F".

1.



2.

3.



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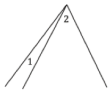

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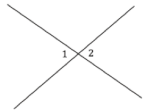

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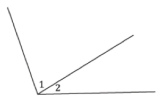

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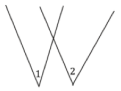

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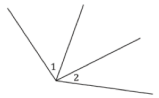

Bubble T for True and F for False.

#1.	#2.	#3.	#4.	#5.	#6.	#7.	#8.
●T ○F	○T ●F	○T ●F	●T ○F	○T ●F	●T ○F	○T ●F	○T ●F

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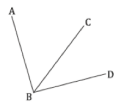
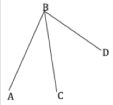
Find the indicated angle measure.

1. m∠ABC=51°, m∠CBD=38°. Find m∠ABD.



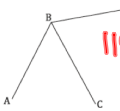
51°+38°=89°
m∠ABD=89°
89°

2. m∠ABC=31°, m∠CBD=43°. Find m∠ABD.



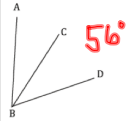
74°

3. m∠ABC=44°, m∠ABD=163°. Find m∠CBD.



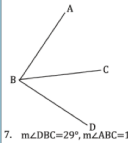
119°

4. m∠ABC=21°, m∠ABD=78°. Find m∠CBD.



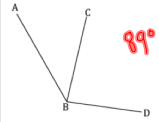
56°

5. m∠ABC=42°, m∠CBD=35°. Find m∠ABD.



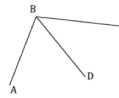
77°

6. m∠ABC=36°, m∠ABD=125°. Find m∠CBD.



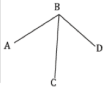
89°

7. m∠DBC=29°, m∠ABC=112°. Find m∠ABD.



83°

8. m∠CBD=48°, m∠ABD=97°. Find m∠CBD.



48°

Bubble all the correct answers from above. Don't bubble incorrect answers.

○89° ○87° ○83° ○46° ○49° ○77° ○113° ○78° ○89° ○88° ○74° ○88° ○57° ○119°

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9/19 Complementary & Supplementary

Lesson

These are **complementary** angles

∠a = 30°

∠b = 60°

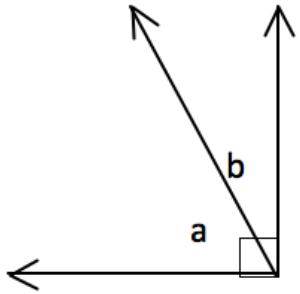
These are NOT **complementary** angles

∠a = 50°

∠b = 60°

Complementary angles are _____

_____

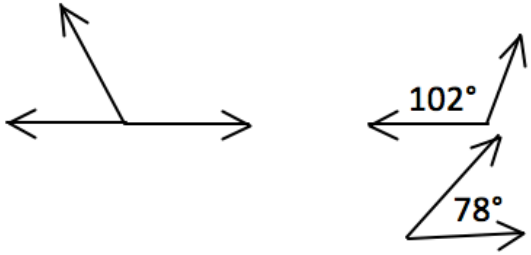


SLG: Solve for a variable and an angle measure by using angle addition & supplementary & complementary angles.

CCSS Standard:

9/19 Complementary & Supplementary

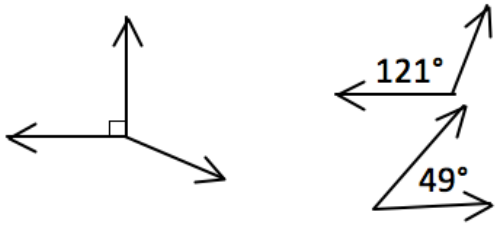
These are **supplementary** angles



∠a = 110°

∠b = 70°

These are NOT **supplementary** angles

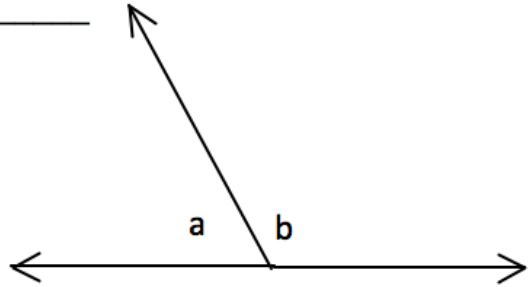


∠a = 105°

∠b = 85°

Supplementary angles are _____

_____



SLG: Solve for a variable and an angle measure by using angle addition & supplementary & complementary angles.

CCSS Standard:

9/19 Complementary & Supplementary

Examples

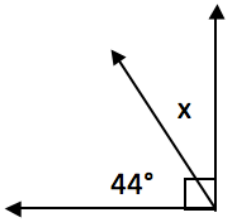
For each diagram:

IDENTIFY whether the angles are complementary, supplementary, or neither

WRITE an equation for pairs that are complementary or supplementary

SOLVE the equation

Example 1: Find the value of x

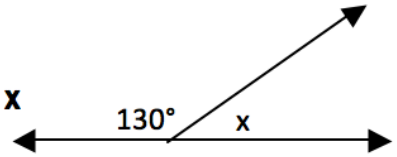


Relationship:

Equation:

Solve:

Example 2: Find the value of x



Relationship:

Equation:

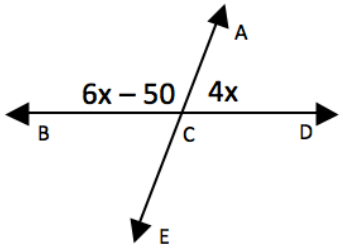
Solve:

SLG: Solve for a variable and an angle measure by using angle addition & supplementary & complementary angles.

CCSS Standard:

9/19 Complementary & Supplementary

Example 3: Find the value of x. Then find the measure of angle ACB.



Relationship:

Equation:

Solution:

The measure of angle ACB:

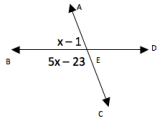
SLG: Solve for a variable and an angle measure by using angle addition & supplementary & complementary angles.
CCSS Standard:

9/19 Complementary & Supplementary Classwork #1-2, 1-7

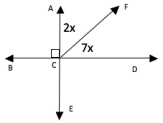
For each diagram:

IDENTIFY whether the angles are complementary, supplementary, or neither
WRITE an equation for pairs that are complementary or supplementary
SOLVE the equation
CALCULATE the value for the indicated angle

1. Find the measure of angle BEC



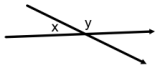
2. Find the measure of angle FCD



1. If <A measures 73 degrees, what is the measure of its compliment?

2. If <B has a measure of 123 degrees, what is the measure of its supplement?

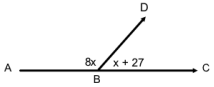
3. Given <x = 2x + 3 and < y = 3x + 2, what is the measurement of < y?



4. The measure of an angle is represented by x. The measure of the compliment can be represented as:
a. (90 - x) b. (x - 90) c. (180 - x) d. (x - 180)

5. Two complimentary angles are in the ratio 3:2. The number of degrees in the smaller angle is:

6. Using the diagram
Part A: What is the value of x?



Part B: What is the measure of < CBD?

7. If two supplementary angles are in the ratio 4:5, the measure of the larger angle is?

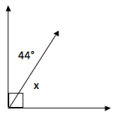
9/19 Complementary & Supplementary Homework #1-8

Homework

For each diagram:
- IDENTIFY whether the angles are complementary, supplementary, or neither
- WRITE an equation for pairs that are complementary or supplementary
- SOLVE the equation

1.

2.



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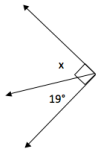
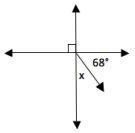


4.

Homework

For each diagram:
- IDENTIFY whether the angles are complementary, supplementary, or neither
- WRITE an equation for pairs that are complementary or supplementary
- SOLVE the equation

5.



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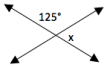

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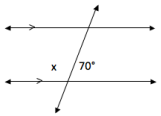

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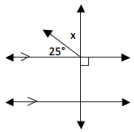

9/19 Geometry PRIDE

Names & accomplishments

CCSS Standard:

9/19 Ticket Out the Door

Ticket out the door Name_____ Date_____ Per_____

☹ 1 2 3 4 5 ☺ because:

Today I learned about _____.
To do this I need to _____.
One question I still have is _____.

SLG: Solve for a variable and an angle measure by using angle addition & supplementary & complementary angles.
CCSS Standard:

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: