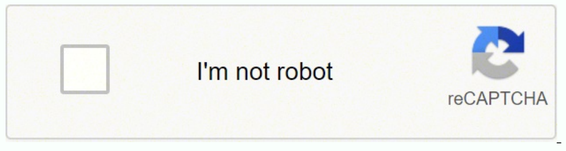

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Angle relationships equations worksheet pdf answer keys pdf

Name _____ Date _____ Class _____

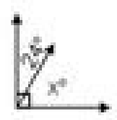
Angle Relationships Quiz:

1.) Which of the following could be used to describe angles ∠ABC and ∠ABD?

I. Vertical
II. Adjacent
III. Supplementary
IV. Complementary

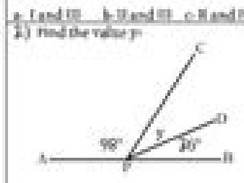
a. I and III b. II and III c. II and IV d. I and IV

2.) Find the value of x:



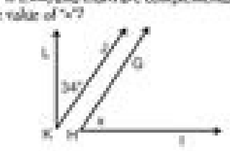
a. 130° b. 65° c. 75° d. 50°

3.) Find the value of y:



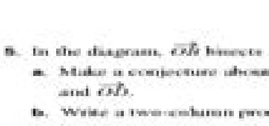
a. 40° b. 57° c. 50° d. 62°

4.) If ∠EAG and ∠GAH are complementary, what is the value of "x"?



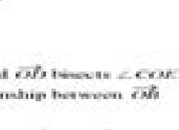
a. 64° b. 54° c. 34° d. 24°

5.) What is the value of x?



a. x = 9 b. x = 11 c. x = 18 d. x = 21

6.) Calculate the value of "x":



a. x = 55 b. x = 40 c. x = 50 d. x = 65

7.) Find the value of "x":

a. 130° b. 70° c. 60° d. 30°

8.) Find the value of "x"

a. 97½ b. 82½ c. 98½ d. 66½

LESSON 2.6

Name _____ Date _____

Challenge: Skills and Applications

For use with pages 109–116

1. a. Use the diagram shown to write a two-column proof of the following theorem: If the nonshared sides of two adjacent acute angles are perpendicular, then the angles are complementary.

   b. Explain why the word *acute* is necessary in the statement of the theorem.

   c. Explain how your proof used the fact that the angles are acute.

2. Write a two-column proof.

   Given: $\overrightarrow{VY}$ bisects $\angle UVW$

   Prove: $\overrightarrow{VY}$ bisects $\angle XVZ$

3. Write a paragraph proof to show that if two lines form congruent adjacent angles, then the lines are perpendicular.

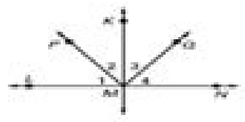
   Given: $\angle 1 \cong \angle 2$

   Prove: $\overleftrightarrow{KQ} \perp \overleftrightarrow{LN}$

4. Write a paragraph proof. You may use the result of Exercise 3.

   Given: $\overrightarrow{MK}$ bisects $\angle PMQ$, $\angle 1 \cong \angle 4$

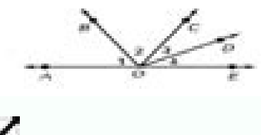
   Prove: $\angle 1$ and $\angle 2$ are complementary.



5. In the diagram, $\overrightarrow{OB}$ bisects $\angle AOC$, and $\overrightarrow{OD}$ bisects $\angle COE$.

   a. Make a conjecture about the relationship between $\overrightarrow{OB}$ and $\overrightarrow{OD}$.

   b. Write a two-column proof that your conjecture is correct.

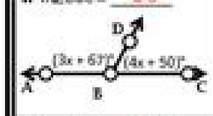


Name _____Answer Key_____ Hour: _____ Date: _____

Angle Relationships: Color - By - Number

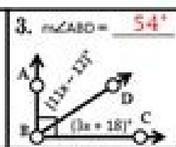
Directions: Use the properties of angle relationships to find each angle measure. Show all of your work.

1. m∠DBC = 86°



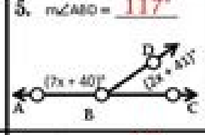
2. m∠DEC = 72°

3. m∠ABD = 54°

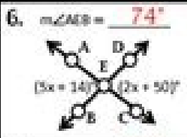


4. m∠ABD = 29°

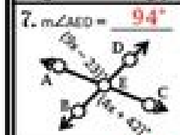
5. m∠ABD = 117°



6. m∠AEB = 74°

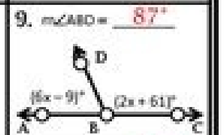


7. m∠AED = 94°



8. m∠DBC = 62°

9. m∠ABD = 87°



10. m∠ABD = 32°

∠ABD and ∠DBC are complementary where ∠ABD = (10x + 12)° and ∠DBC = (9x + 40)°. What is m∠ABD?

11. m∠DBC = 98°

∠ABD and ∠DBC form a linear pair where ∠ABD = (14x + 26)° and ∠DBC = (7x + 70)°. What is m∠DBC?

12. m∠DEC = 107°

∠AEB and ∠DEC are vertical angles where ∠AEB = (18x + 17)° and ∠DEC = (6x + 77)°. What is m∠DEC?

Color Tools:

Dark Brown: 117°	Gray: 29°	Light Green: 62°	Blue: 107°
Yellow: 87°	Black: 86°	Purple: 98°	Pink: 94°
Light Brown: 54°	Red: 72°	Dark Green: 74°	Light Purple: 32°

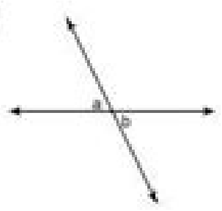
Kuta Software - Infinite Pre-Algebra Name_____

Angle Relationships

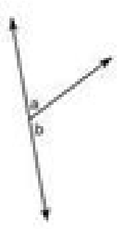
Date_____ Period____

Name the relationship: complementary, supplementary, vertical, or adjacent.

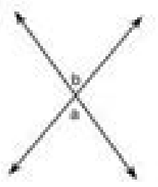
1)



2)

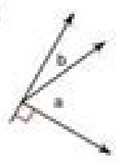


3)



4)

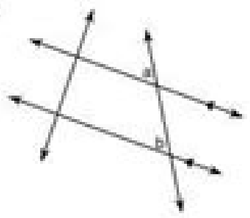
5)



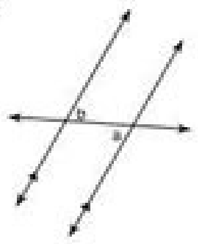
6)

Name the relationship: alternate interior, corresponding, or alternate exterior.

7)

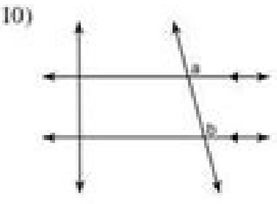


8)



9)

10)



CHAPTER 12

Name _____ Date _____

Cumulative Standardized Test Practice

For use after Chapters 1-12

1. ***Multiple Choice*** Find the length of $\overline{AC}$ if AB is 8, BC is 13, and B is between A and C.

A: 5 B: 8 C: 13

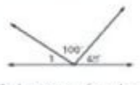
D: 18 E: 21

2. ***Multiple Choice*** Find the measure of $\angle 1$.

A: 48° B: 80°

C: 52° D: 32°

E: 42°



3. ***Multiple Choice*** Which property of equality matches the conditional statement "If $WX = XY$ and $XY = YZ$, then $WX = YZ$?"

A: Addition property

B: Symmetric property

C: Reflexive property

D: Substitution property

E: Transitive property

4. ***Multiple Choice*** Find the values of x and y when $a \parallel b$.

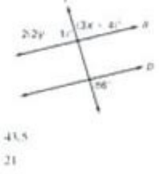
A: $x = 27.3$, $y = 22$

B: $x = 30$, $y = 22$

C: $x = 27.3$, $y = 43.5$

D: $x = 30$, $x = 43.5$

E: $x = 30$, $x = 21$



5. ***Multiple Choice*** Find the measures of $\angle 1$ and $\angle 2$.

A: $m\angle 1 = 80°$, $m\angle 2 = 130°$

B: $m\angle 1 = 50°$, $m\angle 2 = 100°$

C: $m\angle 1 = 65°$, $m\angle 2 = 115°$

D: $m\angle 1 = 65°$, $m\angle 2 = 100°$

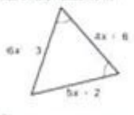
E: $m\angle 1 = 50°$, $m\angle 2 = 115°$

6. ***Multiple Choice*** What is the value of x?

A: 5 B: 4.5

C: 4 D: 1

E: 8



7. ***Multiple Choice*** $\overrightarrow{XY}$ is the perpendicular bisector of $\overline{AB}$. Find AO and AY.

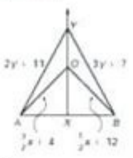
A: $AO = 12$, $AY = 4$

B: $AO = 8$, $AY = 4$

C: $AO = 16$, $AY = 4$

D: $AO = 8$, $AY = 19$

E: $AO = 16$, $AY = 19$



8. ***Multiple Choice*** In the diagram, the angle bisectors of $\triangle ABC$ meet at point D. Find DG.

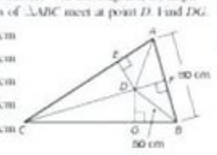
A: 10 cm

B: 15 cm

C: 20 cm

D: 30 cm

E: 35 cm



9. ***Quantitative Comparison*** **Choose the statement below that is true.**

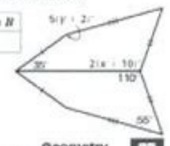
A: The value in column A is greater.

B: The value in column B is greater.

C: The two values are equal.

D: The relationship cannot be determined from the given information.

Column A	*Column B*
x	y



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