

**ANGLES AND ANGLE PAIRS**

1) I can define, identify and illustrate the following terms Quiz /100= % Test /20= %

Angle	Adjacent angles	Obtuse Angle
Vertex	Linear Pair	Acute Angle
Protractor	Complementary angles	Right Angle
Measure	Supplementary angles	
Degree	Vertical angles	

**Wednesday/Thursday, 9/15-16/2010**

How can you use algebra to solve problems involving supplementary and complementary angles? (1.4)		<b>Quiz</b> /20	<b>Test</b> /20= %
2) Can I name and measure angles.		/20	/5
3) I can solve problems using complementary angle, and supplementary angles.			/15
<b>ASSIGNMENT:</b> Vocabulary Crossword, Pg. 31 3-8, 12, 18-19, 26-31, 51	Grade:		

**Friday, 9/17/2010 and Monday, 9/20/2010**

What is the difference between solving problems with the Angle Addition Postulate and angle bisectors?	<b>Quiz</b> /80	<b>Test</b> /25 = %
4) Can I solve problems using the Angle Addition Postulate.	/40	/10
5) Can I solve problems using angle bisectors.	/40	/15
<b>ASSIGNMENT:</b> Pg. 25-27 1-3, 7-11, 15-18, 29-31, 41-44, 57-58	Grade:	

**Tuesday, 9/21/2010**

How can you use algebra to solve problems involving linear pairs and vertical angles? (1.4)	Check Point Grade:	<b>Test</b> /15= %
6) I can solve problems using linear pairs		/10
7) I can solve problems using vertical angles		/5
<b>QUIZ: Angle Addition and Bisectors</b>	<b>GRADE:</b>	
<b>ASSIGNMENT:</b> Linear Pairs and Vertical Angles Worksheet	Grade:	

**Wednesday/Thursday, 9/22-23/2010**

Review	<b>Spiral</b> /20= %
I can assess my ability on all previous objectives.	
<b>ASSIGNMENT:</b> Review Worksheet And Vocabulary Quiz	<b>GRADE:</b>

**Friday, 9/24/2010**

Test #3 Angles	<b>TEST 3</b>
I can demonstrate knowledge skills, and reasoning ability of ALL previously learned material.	
<b>ASSIGNMENT:</b> Test #3 Angles	<b>GRADE:</b>

## Review Questions?

1. How do you solve problems using the Angle Addition Postulate?
2. How do you solve problems using the angle bisectors?
3. Explain the differences in the various types of angle pairs.

# Vertical Angles and Linear Pairs Worksheet

9/21/10 GL

**Linear Pair Theorem:**

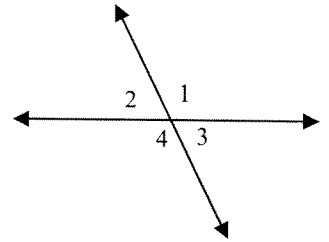
**Vertical Angle Theorem:**

1. Draw a linear pair

2. Draw a set of vertical angles. Name them  $\angle 4$  and  $\angle 5$

1. From the picture at the right, name the 4 sets of linear pair angles?

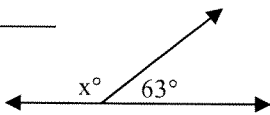
2. From the picture at the right, name the 2 sets of vertical angles?



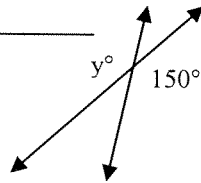
3. Vertical angles are always \_\_\_\_\_.

4. Linear pairs are always \_\_\_\_\_, which means they add up to \_\_\_\_\_.

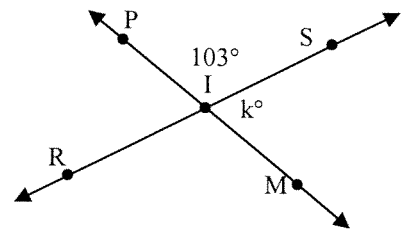
5.  $x =$  \_\_\_\_\_



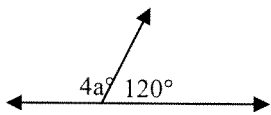
6.  $y =$  \_\_\_\_\_



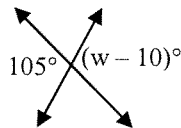
7.  $k =$  \_\_\_\_\_



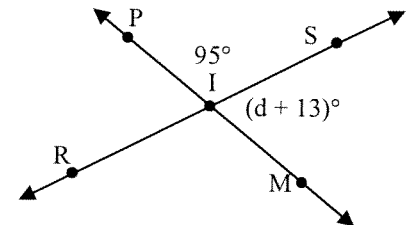
8.  $a =$  \_\_\_\_\_



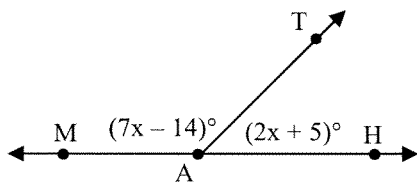
9.  $w =$  \_\_\_\_\_



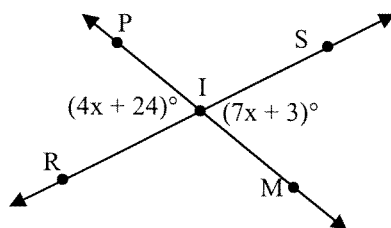
10.  $d =$  \_\_\_\_\_



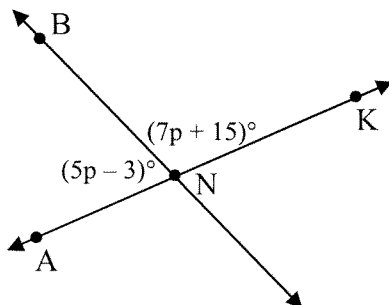
11.  $x =$  \_\_\_\_\_  
 $m\angle MAT =$  \_\_\_\_\_



12.  $x =$  \_\_\_\_\_  
 $m\angle PIR =$  \_\_\_\_\_  
 $m\angle RIM =$  \_\_\_\_\_

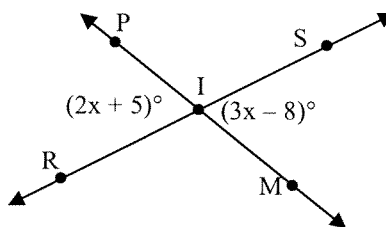


13.  $p =$  \_\_\_\_\_  
 $m\angle BNK =$  \_\_\_\_\_



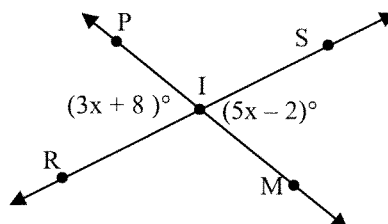
14. Which equation is set up correctly?

- A)  $2x + 5 + 3x - 8 = 180$
- B)  $2x + 5 + 3x - 8 = 5x - 3$
- C)  $2x + 5 + 3x - 8 = 90$
- D)  $2x + 5 = 3x - 8$



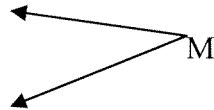
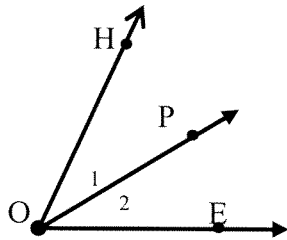
14. Which equation is set up correctly?

- A)  $3x + 8 + 5x - 2 = 180$
- B)  $3x + 8 + 5x - 2 = 8x + 6$
- C)  $3x + 8 + 5x - 2 = 90$
- D)  $10 = 2x$

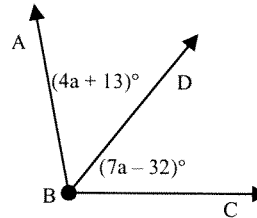


## Review: Unit 2 – Segments and Angles

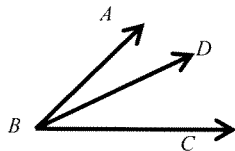
1) Which angles are named in the pictures below.



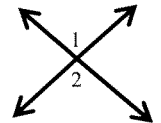
5) Find  $m\angle ABC$  if  $\overline{BD}$  is an angle bisector.



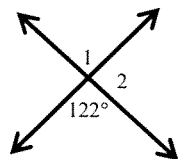
2) If  $m\angle ABD = 22^\circ$  and  $m\angle DBC = 53^\circ$ , then find  $m\angle ABC$ .



6) If  $m\angle 1 = (2x + 45)^\circ$  and  $m\angle 2 = (5x - 45)^\circ$ , find  $m\angle 1$ .

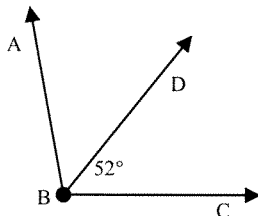


3) Find  $m\angle 1$  and  $m\angle 2$



7) What is the supplement of a  $56^\circ$  angle?

4) Find  $m\angle ABC$  if  $\overline{BD}$  is an angle bisector.



8) If  $\angle A$  and  $\angle B$  are supplementary, and  $m\angle A = (7x + 16)^\circ$ , and  $m\angle B = (9x - 12)^\circ$

Write the equation you would use to find  $x$ .