Name:	Period:	
SHOW ALL WORK FOR CREDIT	<u></u>	
GEOMETRY PRACTICE	QUIZ #2-VERSION B ON	
COMPLEMENTARY AND S	UPPLEMENTARY ANGLES,	
ADJACENT AND VERTICAL AT	NGLES, AND ANGLE AND LINE	
RELATION	ONSHIPS	
PART 1- COMPLEMENTARY AN	D SUPPLEMENTARY ANGLES	
For #'s 1 - 8, match the term with its	definition.	
1. Supplementary A.)	TWO ANGLES WHOSE SUM OF	
2. Complementary	MEASURES EQUALS ONE-	
- · · · · · · · · · · · · · · · · · · ·	HUNDRED EIGHTY DEGREES	
• • —	THESE ANGLES CAN NEVER	
	ORM SUPPLEMENTARY ANGLES	
	TWO OF THESE ANGLES FORM	
E	COMPLEMENTARY ANGLES	
D.`	AN ANGLE FORMED WITH TWO	
·	COMPLEMENTARY ANGLES	
	TWO ANGLES WHOSE SUM OF	
· · · · · · · · · · · · · · · · · · ·	ANGLE MEASURES EQUALS	
NINTEY DEGREES		
	AN ANGLE THAT IS FORMED	
,	VITH TWO SUPPLEMENTARY	
	ANGLES	
P	MINGLES	
For #'s 7 - 15 find the complement of	of each angle	
7.) 5° 8.) 67°	9.) 54°	

13.) 79°

14.) 12°

15.) 89°

For #'s 15 - 24 find the supplement of each angle

15.) 62°

16.) 138°

17.) 4°

18.) 20°

19.) 152°

20.) 165°

21.) 77°

22.) 90°

23.) 113°

24.) Can an angle ever have the same measure as its complement? Explain.

25.) Can an angle ever have the same measure as its supplement? Explain.

25.) If the measure of $\angle A$ is 56°, what is the measure of its complement? What is the measure of its supplement?

26.) If $\angle A$ and $\angle B$ are supplementary and the measure of $\angle A$ is 117°, what is the measure of $\angle B$?

27.) If $\angle A$ and $\angle B$ are complementary and the measure of $\angle B$ is 17°, what is the measure of $\angle A$?

- 28.) What two different angles can form supplementary angles.
- 29.) Two of what same type of angle can form supplementary angles.

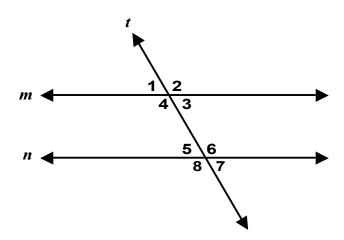
PART 2- ADJACENT AND VERTICAL ANGLES AND ANGLE AND LINE RELATIONSHIPS

For #'s 30 - 35, match the term with	its definition.
30.) Congruent	A.) A LINE THAT INTERSECTS
31.) Adjacent	TWO OTHER LINES IN
32.) Vertical	DIFFERENT POINTS.
33.) Parallel	B.) ANGLES THAT ARE
34.) Transversal	FORMED BY TWO
35.) Exterior	INTERSECTING LINES AND
36.) Interior	ARE OPPOSITE EACH OTHER.
	C.) ARE ANGLES THAT LIE
	INSIDE PARALLEL LINES.
	D.) ANGLES THAT HAVE THE

HER. THE SAME ANGLE MEASURE E.) ARE ANGLES THAT LIE OUTSIDE PARALLEL LINES. F.) ARE LINES THAT ARE THE SAME DISTANCE APART AND NEVER INTERSECT. G.) ARE ANGLES THAT SHARE A VERTEX AND A SIDE BUT HAVE NO INTERIOR POINTS IN COMMON.

38.) What does the symbol || represent?

For #'s 39 - 43, use the figure to determine the answers to the questions.



39.) What is the $\underline{3}$ similarities between < 1 and < 2?

- 1.
- 2.
- **3.**

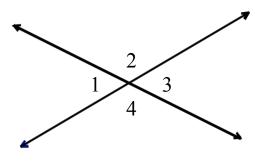
40.) What is the similarity between < 1 and < 5?

41.) What is the similarity between < 3 and < 5?

- 42.) What is the similarity between < 1 and < 7?
- 43.) What is the similarity between < 5 and < 4?

For #'s 44 - 49, use the information before the questions

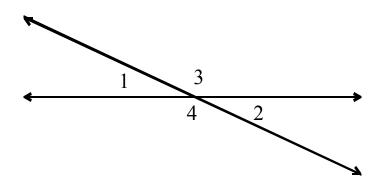
For #'s 44 - 46 use the diagram below, $m \angle 2 = 123^{\circ}$. Find the measure of each angle.



- 44.) *m*< 1
- 45.) *m*< 3

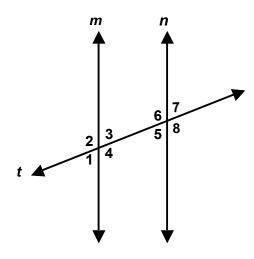
46.) *m*< 4

For #'s 47 - 49 In the diagram below, $m < 1 = 25^{\circ}$ Find the measure of each angle.



- 47.) *m*< 3
- 48.) *m*< 2
- 49.) *m*< 4

For #'s 50 - 55 use the following information below: In the figure, $m \parallel n$ and t is a transversal. If $m < 8 = 125^{\circ}$, find the measure of each angle. (MUST GIVE AN EXPLANATION FOR EACH ANSWER.)



50.) < 5

51.) < 6

54.) < 4

55.) < 7

For #'s 55 - 60, answer the questions below

55.) There are always how many exterior angles?

56.) There are always how many interior angles?

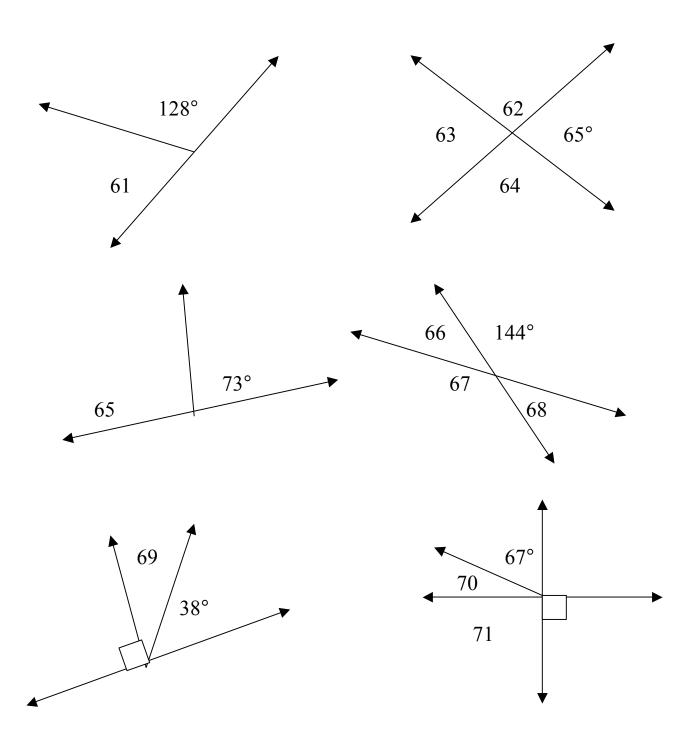
57.) There are always how many pair of alternate interior angles?

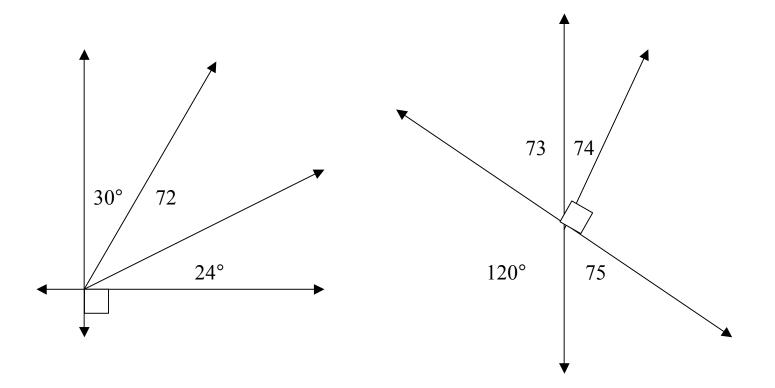
58.) There are always how many pair of alternate exterior angles?

59.) There are always how many pair of corresponding angles?

60.) Corresponding angles always pair together what two types of angles?

For #'s 61 - 75, find the measure of each numbered angle. Write the answers on the following page.





WORKSPACE FOR #'S 61 - 75:

61.

62.

63.

64.

65.

66.

67.

68.

69.

70.

71.

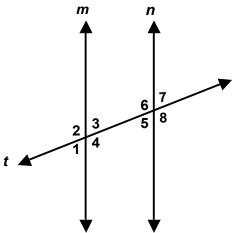
72.

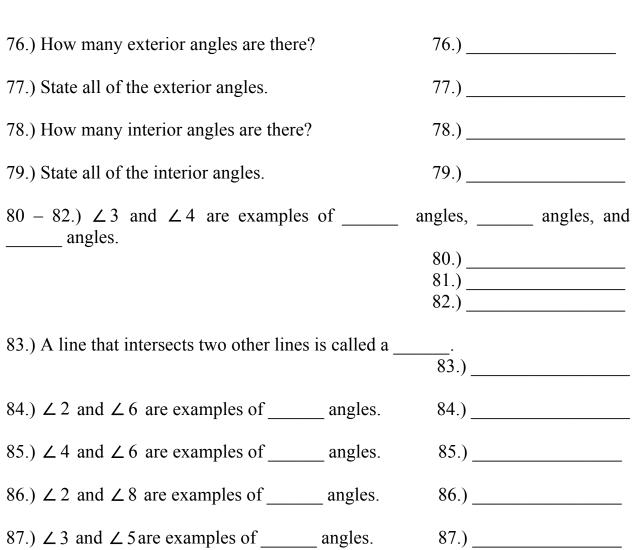
73.

74.

75.

For #'s 76 - 94, use the figure below. In the figure, $m \parallel n$ and t is a transversal. Fill in the blank with the best possible answer. (Make sure to label your answers properly!)





88.)

88.) $\angle 2$ and $\angle 4$ are examples of angles.

89.) are two lines that never intersect.	89.)
90.) \angle 5 and \angle 7 are examples of angles.	90.)
91.) True or False. $\angle 3$ and $\angle 7$ are congruent. Explain	why or why not. 91.)
92.) How many pairs of vertical angles are there?	92.)
93.) State all the pairs of vertical angles.	93.)
94.) Name the transversal in the figure above.	94.)