Name: _____   Period: _____

SHOW ALL WORK FOR CREDIT!

GEOMETRY PRACTICE QUIZ #2 – VERSION A

PART 1- COMPLEMENTARY AND SUPPLEMENTARY ANGLES

For #'s 1 - 8, match the term with its definition.

1. Supplementary _____
2. Complementary _____
3. Right Angle _____
4. Straight Angle _____
5. Acute Angle _____
6. Obtuse Angles _____

A.) TWO ANGLES WHOSE SUM OF MEASURES EQUALS ONE-HUNDRED EIGHTY DEGREES

B.) THESE ANGLES CAN NEVER FORM SUPPLEMENTARY ANGLES

C.) TWO OF THESE ANGLES FORM COMPLEMENTARY ANGLES

D.) AN ANGLE FORMED WITH TWO COMPLEMENTARY ANGLES

E.) TWO ANGLES WHOSE SUM OF ANGLE MEASURES EQUALS NINTEY DEGREES

F.) AN ANGLE THAT IS FORMED WITH TWO SUPPLEMENTARY ANGLES

For #'s 7 - 15 find the complement of each angle

 7.) 5°   8.) 67°   9.) 54°

10.) 25°   11.) 110°   12.) 73°

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°

Answer the questions for #'s 24 - 27

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 56º, 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 117º, what is the measure of $\angle B$?

27.) If $\angle A$ and $\angle B$ are complementary and the measure of $\angle B$ is 17º, 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 _____
31.) Adjacent _____
32.) Vertical _____
33.) Parallel _____
34.) Transversal _____
35.) Exterior _____
36.) Interior _____

A.) A LINE THAT INTERSECTS TWO OTHER LINES IN DIFFERENT POINTS.
B.) ANGLES THAT ARE FORMED BY TWO INTERSECTING LINES AND ARE OPPOSITE EACH OTHER.
C.) ARE ANGLES THAT LIE INSIDE PARALLEL LINES.
D.) ANGLES THAT HAVE THE SAME ANGLE MEASURE
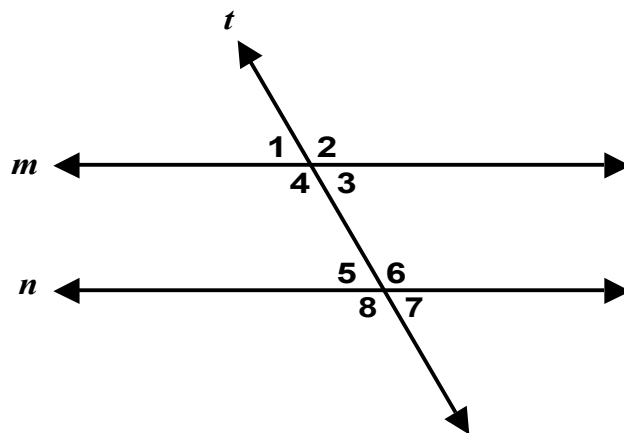E.) ARE ANGLES THAT LIE OUTSIDE PARALLEL LINES.
F.) ARE LINES THAT ARE THE SAME DISTANCE APART AND NEVER INTERSECT.
G.) ARE ANGLES THAT SHARE A VERTEX AND A SIDE BUT HAVE NO INTERIOR POINTS IN COMMON.

37.) What does the symbol ≅ represent?

38.) What does the symbol ‖ represent?

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

39.) What is the **3** similarities between < 1 and < 2?
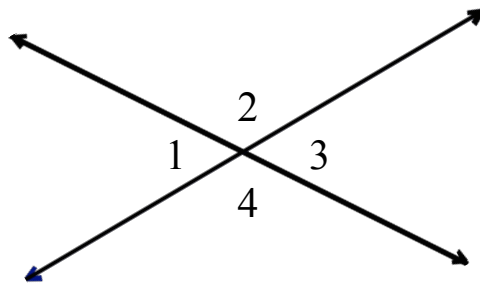 **1.**
  2.
  3.

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

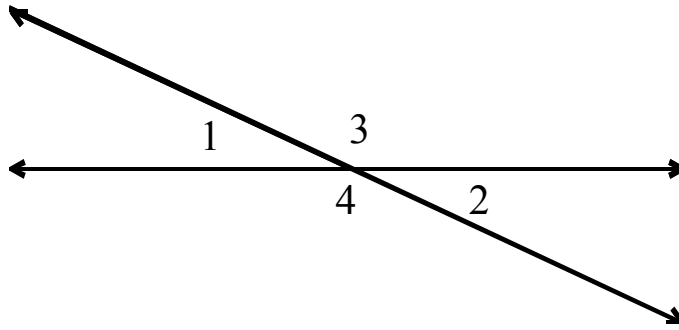For #'s 44 – 46 use the diagram below, $m\angle 2 = 123°$.   Find the measure of each angle.

44.) $m< 1$ 45.) $m< 3$ 46.) $m< 4$

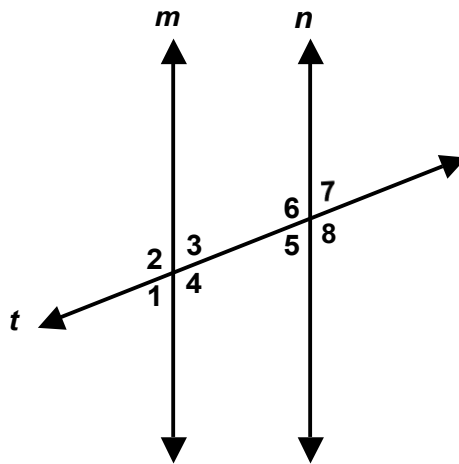For #'s 47 – 49 In the diagram below, $m< 1 = 25°$ Find the measure of each angle.

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

For #'s 50 – 55 use the following information below:
In the figure, *m* || *n* and *t* is a transversal. If *m*< 8 =125º,   find   the
measure of each angle.   (MUST GIVE AN EXPLANATION FOR
EACH ANSWER.)

50.) < 5   51.) < 6

52.) < 2   53.) < 1

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?

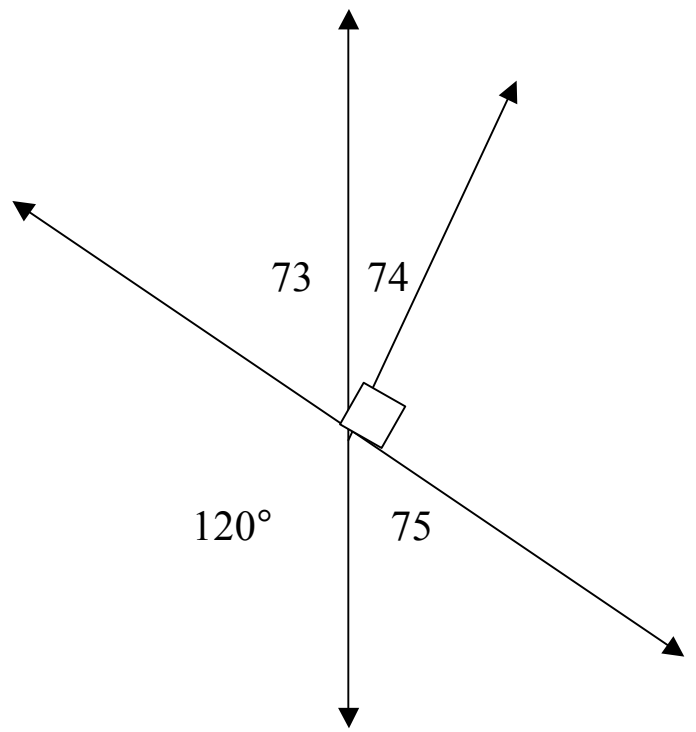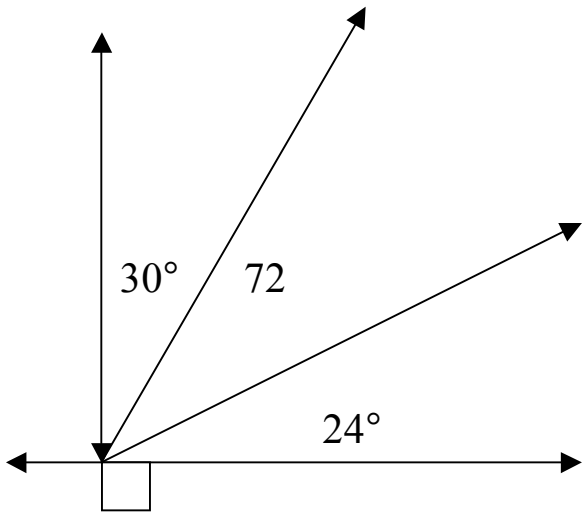58.) There are always how many pair of alternate exterior angles?

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.

128°

61

62

63   65°

64

73°

65

66   144°

67

68

69

38°

67°

70

71
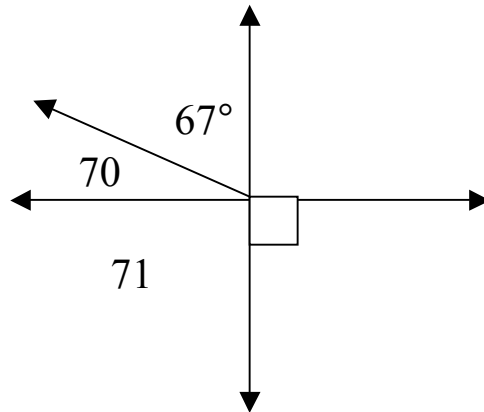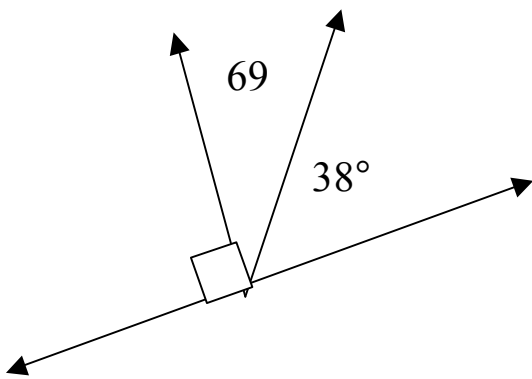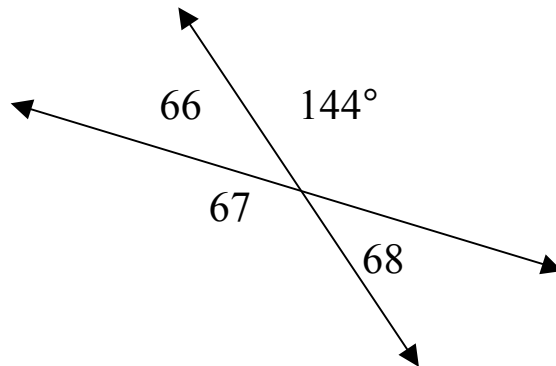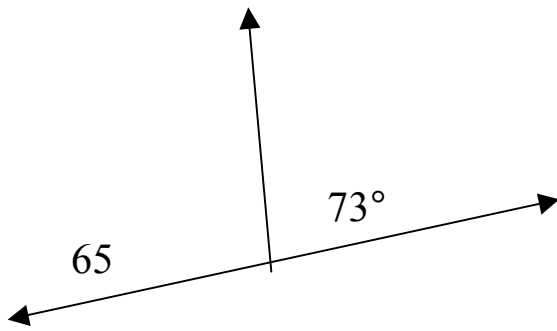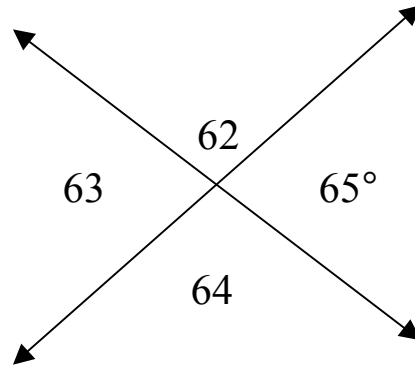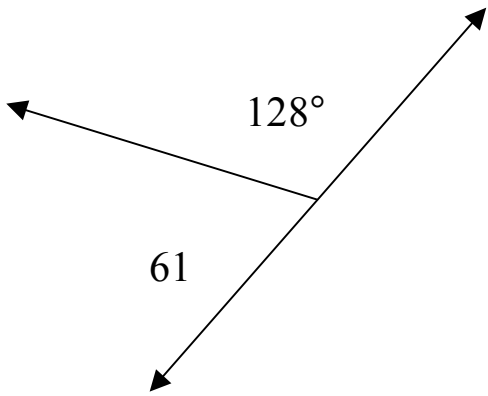
WORKSPACE FOR #'S 61 – 75:

61.

62.

63.

64.

65.

66.

67.

68.

69.

70.

71.

72.

73.

74.

75.