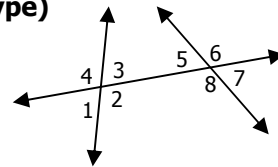


# Parallel Lines and Transversals

Name \_\_\_\_\_ Period \_\_\_\_\_  
M

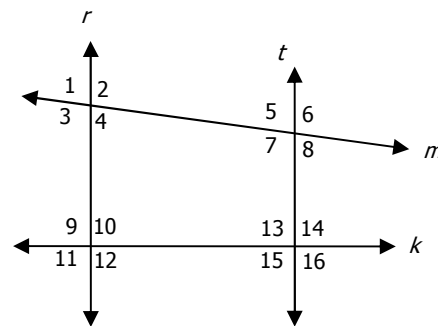
## II. Identify the angles that go with the following types. (give all angles for each type)

- 5) Corresponding angles                      6) Alternate exterior angles  
7) Consecutive interior angles            8) Alternate interior angles



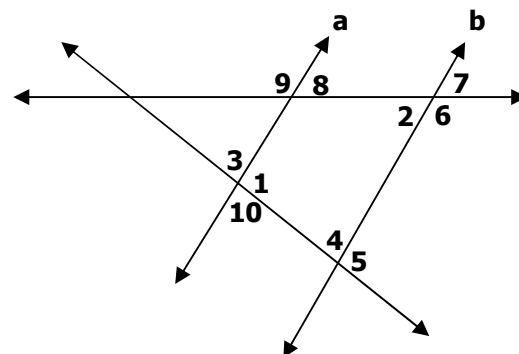
## III. Using the figure below, state the transversal that forms each pair of angles. Then identify the special name for the angle pair.

- 9)  $\angle 1$  and  $\angle 12$  transversal = \_\_\_\_\_ special name = \_\_\_\_\_  
10)  $\angle 2$  and  $\angle 10$  transversal = \_\_\_\_\_ special name = \_\_\_\_\_  
11)  $\angle 4$  and  $\angle 9$  transversal = \_\_\_\_\_ special name = \_\_\_\_\_  
12)  $\angle 6$  and  $\angle 3$  transversal = \_\_\_\_\_ special name = \_\_\_\_\_  
13)  $\angle 14$  and  $\angle 10$  transversal = \_\_\_\_\_ special name = \_\_\_\_\_  
14)  $\angle 7$  and  $\angle 13$  transversal = \_\_\_\_\_ special name = \_\_\_\_\_

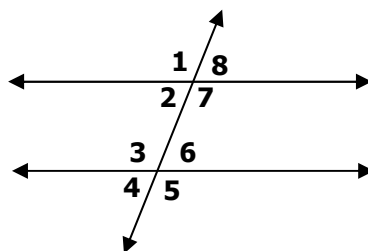


In figure below  $a \parallel b$ ,  $m\angle 1 = 78^\circ$ , and  $m\angle 2 = 47^\circ$ . Find measure of each angle.

- 21)  $\angle 3$                                       22)  $\angle 4$   
23)  $\angle 5$                                       24)  $\angle 6$   
25)  $\angle 7$                                       26)  $\angle 8$   
27)  $\angle 9$                                       28)  $\angle 10$



In the figure,  $l \parallel m$ . Find the measure of each angle. Each problem is different.



- 35) If  $m\angle 7 = 100^\circ$ , then  $m\angle 3 =$  \_\_\_\_\_  
36) If  $m\angle 7 = 175^\circ$ , then  $m\angle 6 =$  \_\_\_\_\_  
37) If  $m\angle 7 = 120^\circ$ , then  $m\angle 5 =$  \_\_\_\_\_  
38) If  $m\angle 4 = 20^\circ$ , then  $m\angle 7 =$  \_\_\_\_\_  
39) If  $m\angle 3 = 140^\circ$ , then  $m\angle 8 =$  \_\_\_\_\_  
40) If  $m\angle 4 = 30^\circ$ , then  $m\angle 1 =$  \_\_\_\_\_  
41) If  $m\angle 4 = 40^\circ$ , then  $m\angle 2 =$  \_\_\_\_\_  
42) If  $m\angle 7 = 125^\circ$ , then  $m\angle 4 =$  \_\_\_\_\_

I. If  $m\angle 2 = 58^\circ$  and  $m\angle 13 = 111^\circ$ , then find the missing angle measures.  $x \parallel m$ ,  $z \parallel y$

55)  $m\angle 1 =$  \_\_\_\_\_

56)  $m\angle 2 =$  \_\_\_\_\_

57)  $m\angle 3 =$  \_\_\_\_\_

58)  $m\angle 4 =$  \_\_\_\_\_

59)  $m\angle 5 =$  \_\_\_\_\_

60)  $m\angle 6 =$  \_\_\_\_\_

61)  $m\angle 7 =$  \_\_\_\_\_

62)  $m\angle 8 =$  \_\_\_\_\_

63)  $m\angle 9 =$  \_\_\_\_\_

64)  $m\angle 10 =$  \_\_\_\_\_

65)  $m\angle 11 =$  \_\_\_\_\_

66)  $m\angle 12 =$  \_\_\_\_\_

67)  $m\angle 13 =$  \_\_\_\_\_

68)  $m\angle 14 =$  \_\_\_\_\_

\*69)  $m\angle 15 =$  \_\_\_\_\_

70)  $m\angle 16 =$  \_\_\_\_\_ (16-19 look at line x and m)

71)  $m\angle 17 =$  \_\_\_\_\_

72)  $m\angle 18 =$  \_\_\_\_\_

73)  $m\angle 19 =$  \_\_\_\_\_

