

LESSON
1.5**Practice A**

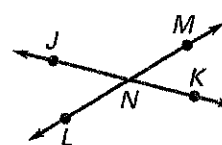
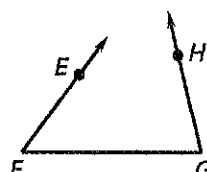
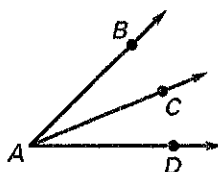
For use with the lesson "Describe Angle Pair Relationships"

Tell whether the indicated angles are adjacent.

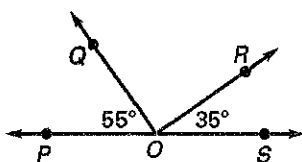
1. $\angle BAC$ and $\angle CAD$

2. $\angle EFG$ and $\angle HGF$

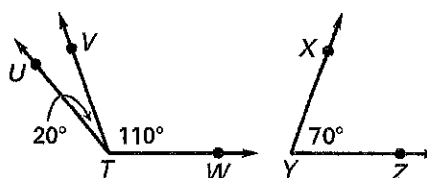
3. $\angle JNM$ and $\angle LNK$

**Name a pair of complementary angles and a pair of supplementary angles.**

4.



5.

 $\angle 1$ and $\angle 2$ are complementary angles. Given the measure of $\angle 1$, find $m\angle 2$.

6. $m\angle 1 = 52^\circ$

7. $m\angle 1 = 76^\circ$

8. $m\angle 1 = 19^\circ$

9. $m\angle 1 = 63^\circ$

 $\angle 1$ and $\angle 2$ are supplementary angles. Given the measure of $\angle 1$, find $m\angle 2$.

10. $m\angle 1 = 147^\circ$

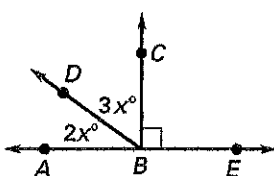
11. $m\angle 1 = 94^\circ$

12. $m\angle 1 = 38^\circ$

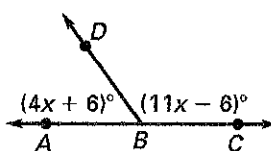
13. $m\angle 1 = 121^\circ$

Find $m\angle ABD$ and $m\angle DBC$.

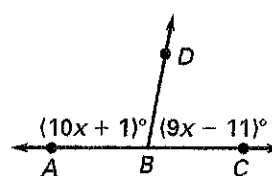
14.



15.



16.

**Use the diagram below. Tell whether the angles are vertical angles, a linear pair, or neither.**

17. $\angle 1$ and $\angle 2$

18. $\angle 1$ and $\angle 3$

19. $\angle 2$ and $\angle 4$

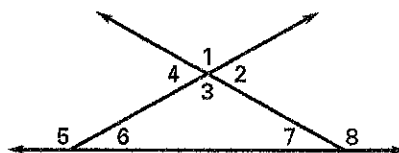
20. $\angle 3$ and $\angle 4$

21. $\angle 5$ and $\angle 6$

22. $\angle 5$ and $\angle 7$

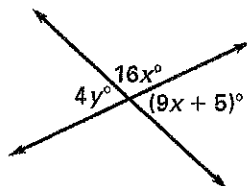
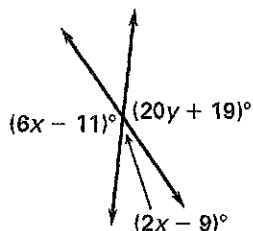
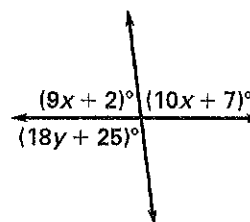
23. $\angle 6$ and $\angle 8$

24. $\angle 7$ and $\angle 8$



LESSON
1.5**Practice A** *continued*

For use with the lesson "Describe Angle Pair Relationships"

Find the values of x and y .**25.****26.****27.** **$\angle A$ and $\angle B$ are complementary. Find $m\angle A$ and $m\angle B$.**

28. $m\angle A = x^\circ$

$m\angle B = (x - 30)^\circ$

29. $m\angle A = (5x + 4)^\circ$

$m\angle B = (7x - 10)^\circ$

30. $m\angle A = (4x - 2)^\circ$

$m\angle B = (11x + 17)^\circ$

31. $m\angle A = (6x - 9)^\circ$

$m\angle B = (8x + 1)^\circ$

 $\angle A$ and $\angle B$ are supplementary. Find $m\angle A$ and $m\angle B$.

32. $m\angle A = x^\circ$

$m\angle B = 3x^\circ$

33. $m\angle A = (7x - 3)^\circ$

$m\angle B = (x - 1)^\circ$

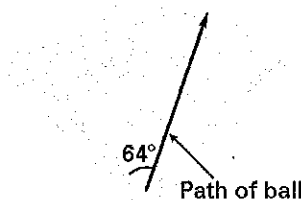
34. $m\angle A = (11x + 2)^\circ$

$m\angle B = (8x + 7)^\circ$

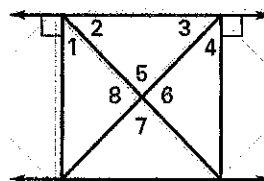
35. $m\angle A = (13x + 10)^\circ$

$m\angle B = (12x + 20)^\circ$

- 36. Baseball** The foul lines of a baseball field intersect at home plate to form a right angle. You hit a baseball whose path forms an angle of 64° with the third base foul line (see figure at right). What is the angle between the first base foul line and the path of the baseball?



Stair Railing A stair railing is designed as shown in the figure. Use the angles identified in the figure to name two pairs of the indicated type of angle pair.



- 37.** Complementary angles
38. Supplementary angles
39. Vertical angles
40. Linear pair
41. Adjacent angles