

LESSON
8.1

Name _____ Date _____

Practice B

For use with pages 375–379

Complete the statement.

1. A straight angle is an angle with a measure of _____.
2. A _____ angle measures 90° .
3. Supplementary angles are two angles whose measures add up to _____.
4. _____ angles are two angles whose measures add up to 90° .
5. _____ angles are a pair of angles, formed by two intersecting lines, that don't share a side.
6. Perpendicular lines are two lines that intersect at a _____ angle.
7. _____ lines are two lines in the same plane that do not intersect.

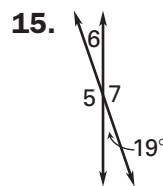
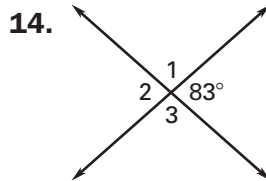
Tell whether the angles are *complementary*, *supplementary*, or *neither*.

8. $m\angle 1 = 38^\circ$, $m\angle 2 = 142^\circ$
9. $m\angle 1 = 93^\circ$, $m\angle 2 = 15^\circ$
10. $m\angle 1 = 36^\circ$, $m\angle 2 = 54^\circ$
11. $m\angle 1 = 103^\circ$, $m\angle 2 = 77^\circ$

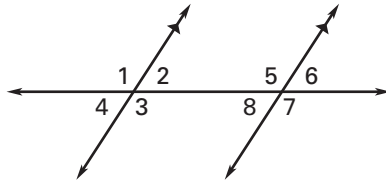
Find the angle measure.

12. $\angle 1$ and $\angle 2$ are supplementary, and $m\angle 1 = 27^\circ$. Find $m\angle 2$.
13. $\angle 3$ and $\angle 4$ are complementary, and $m\angle 4 = 64^\circ$. Find $m\angle 3$.

In Exercises 14 and 15, find the measures of the numbered angles.



16. In the diagram, $m\angle 3 = 123^\circ$. Find the measure of each angle.



Find the value of the variable and the angle measures.

17. $m\angle 1 = 3x^\circ$ and $m\angle 3 = (7x - 40)^\circ$
18. $m\angle 7 = 4x^\circ$ and $m\angle 8 = (96 + 3x)^\circ$
19. $m\angle 6 = (6 + 2x)^\circ$ and $m\angle 5 = (3x - 17)^\circ$

