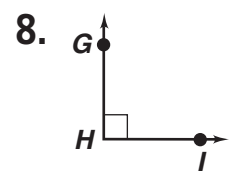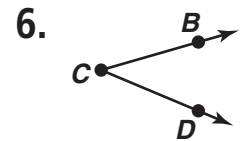# Answers for Lesson 1-6, pp. 40–42 Exercises

1. $\angle XYZ$, $\angle ZYX$, $\angle Y$

2. $\angle MCP$, $\angle PCM$, $\angle C$, or $\angle 1$

3. $\angle ABC$, $\angle CBA$

4. $\angle CBD$, $\angle DBC$

5–8. Drawings may vary. Samples are given.

5.

6.

7.

8.

9. 60; acute

10. about 42°; acute

11. 90; right

12. 135; obtuse

13. 34

14. 70

15. $\angle AOB$ or $\angle DOC$

16. $\angle EOC$

17. $\angle EOC$

18. $\angle DOC$ or $\angle AOB$

19. $\angle AOB$ and $\angle DOC$ or $\angle BOC$ and $\angle AOD$

20. 90

21. 30

22. 150

23. 30

24. Yes; the markings show they are $\cong$.

25. No; there are no markings.

26. Yes; you can conclude that $\angle$s are adjacent and suppl. from the diagram.

27. No; there are no markings.

28. Yes; you can conclude that $\angle$s are suppl. from the diagram.

29. Yes; there are markings.

30. No; there are no markings.

31. Yes; you can conclude that $\angle$s are vert. from the diagram.

32. No; there are no markings.

33. 115   **34.** 65   **35.** 180   **36.** 150

37. 30   **38.** 100   **39.** 40   **40.** 80

41. 45, 75, and 165, or 135, 105, and 15

42. $12; m\angle AOC = 82, m\angle AOB = 32, m\angle BOC = 50$

43. $8; m\angle AOB = 30, m\angle BOC = 50, m\angle COD = 30$

44. $18; m\angle AOB = 28, m\angle BOC = 52, m\angle AOD = 108$

45. $7; m\angle AOB = 31, m\angle BOC = 49, m\angle AOD = 111$

46. A

47. a. 19.5

  b. 43; 137

  c. Answers may vary. Sample: The sum of the $\angle$ measures should be 180.

48. 30   **49.** Angle Add. Post.