

Answers for Lesson 1-5, pp. 33–35 Exercises

1. 9; 9; yes 2. 9; 6; no 3. 11; 13; no
4. 7; 6; no 5. $XY = ZW = 4$; yes
6. $ZX = WY = 8$; yes 7. $YZ = 4, XW = 12$; no
8. 24 9. 25
10. a. 13
b. $RS = 40, ST = 24$
11. a. 7
b. $RS = 60, ST = 36, RT = 96$
12. a. 9
b. 9; 18
13. 33 14. 34 15. 130
16. Q 17. 6 18. -4
19. 1 20. $-2.5, 2.5$ 21. $-3.5, 3.5$
22. $-6, -1, 1, 6$
23. a. 114 mi
b. Conway
- 24–28. Check students' work.
29. true; $AB = 2, CD = 2$ 30. false; $BD = 9, CD = 2$
31. false; $AC = 9, BD = 9, AD = 11$, and $9 + 9 \neq 11$
32. true; $AC = 9, CD = 2, AD = 11$, and $9 + 2 = 11$
33. 2, 12
34. $y = 15; AC = 24, DC = 12$
35. $ED = 10, DB = 10, EB = 20$

Answers for Lesson 1-5, pp. 33–35 Exercises (cont.)

36. 30

37. a. $5x$ **b.** 9, 15

38. a. Answers may vary. Sample: $4\frac{1}{4}$ in. and 11 in.

b. Answers may vary. Sample: You can use the marks for $6\frac{1}{2}$ in. and $11\frac{1}{2}$ in. or 6 in. and 11 in.