

## Answers for Lesson 10-6, pp. 569–573 Exercises

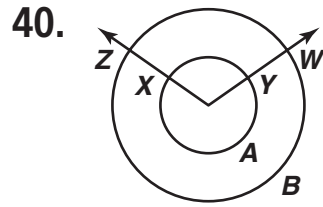
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- |       |        |
|-------|--------|
| 1. 18 | 2. 29  |
| 3. 40 | 4. 22  |
| 5. 43 | 6. 43  |
| 7. 40 | 8. 126 |

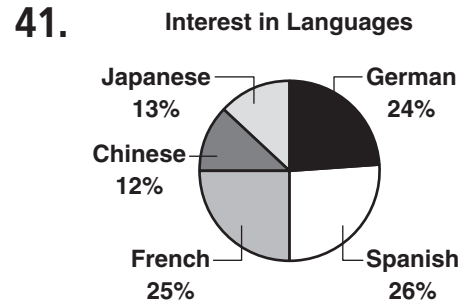
**9–14. Answers may vary. Samples are given.**

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|------------------------|---------------------------------------|
| 9. $\widehat{ED}$      | 10. $\widehat{FEB}$                   |
| 11. $\widehat{BFE}$    | 12. $\widehat{FE}$ and $\widehat{ED}$ |
| 13. $\angle FOE$       | 14. $\angle FOE$ and $\angle BOC$     |
| 15. 128                | 16. 180                               |
| 17. 218                | 18. 270                               |
| 19. 52                 | 20. 308                               |
| 21. 180                | 22. 90                                |
| 23. 232                | 24. 90                                |
| 25. 142                | 26. 270                               |
| 27. $20\pi$ cm         | 28. $6\pi$ ft                         |
| 29. $8.4\pi$ m         | 30. $14\pi$ in.                       |
| 31. $\pi$ m            | 32. $58\pi$ cm                        |
| 33. 25 in.             | 34. $\frac{7\pi}{2}$ cm               |
| 35. $8\pi$ ft          | 36. $27\pi$ m                         |
| 37. $33\pi$ in.        | 38. $\frac{23\pi}{2}$ m               |
| 39. $\frac{5\pi}{4}$ m |                                       |

**Answers for Lesson 10-6, pp. 569–573 Exercises (cont.)**



no



42. 70

43. 180

44. 110

45. 55

46. 235

47. 290

48. Check students' work.

49. a. 6

b. 30

c. 120

50. a. 0.5

b. 2.5

c. 10

51. 100

52. 38

53. 40

54. 100 in.

55. 50 in.

56.  $\frac{100\pi}{3}$  in.

57. B

58. 3:4

59. 105 ft

60. a. 25,000 mi

b. The estimate seems quite accurate.

**Answers for Lesson 10-6, pp. 569–573 Exercises (cont.)**

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61.  $(2.5, 5)$                       62.  $5\pi$  units                      63.  $5.125\pi$  ft  
64.  $2.6\pi$  in.                      65.  $3\pi$  m                      66. 44.0 cm  
67. Outside; a point on the outside travels farther in the same time, so it goes faster.  
68. 18 cm                      69. 12.6 units  
70. a. Answers may vary. Sample:  $\widehat{BD}$  and  $\widehat{FE}$   
    b. 35  
71.  $2\pi$  in.; assumptions may vary.  
72. 325.7 yd; 333.5 yd; 341.4 yd; 349.2 yd; 357.1 yd; 364.9 yd; 372.8 yd; 380.6 yd