

Answers for Lesson 7-7, pp. 338–339 Exercises

1. circumference
2. separate the figure into a rectangle and half a circle
3. $C = \pi d$
 $= \pi(2r)$
 $= 2\pi r$
4. 66 cm
5. 44 km
6. 22 m
7. 88 in.
8. 37.7 m; 113.1 m²
9. 15.7 cm; 19.6 cm²
10. 88.0 yd; 615.8 yd²
11. 28.9 in.; 66.5 in.²
12. 28.3 cm; 63.6 cm²
13. 110.6 mm; 973.1 mm²
14. 25.4 yd; 51.5 yd²
15. 66.0 cm; 346.4 cm²
16. 20.1 ft; 32.2 ft²
17. 22.3 ft²
18. 4.1 m²
19. 1,253.4 ft²
20. 26.6 yd²
21. 104.9 in.²
22. 29.9 ft²
23. 66 cm²
24. 535.5 ft²
25. A circle with a diameter of 2 in. has an area of 3.14 in.², while a square with a side length of 2 in. has an area of 4 in.².
26. 3.56 cm; 7.11 cm
27. 0.27 in.; 0.54 in.
28. 8.11 ft; 16.21 ft
29. 10.00 m; 20.00 m
30. 315.8 ft²
31. 40.8 in.²
32. a. 9 : 1
b. $a^2 : b^2$
33. about 12 ft
34. 31.8%
35. D
36. J
37. C
38. about \$4.50
39. about \$9.60
40. about \$2.10
41. about \$16.50