

Answers for Chapter 8 Test, p. 430

1. about 800 in.² 2. about 550 in.² 3. 108 cm²
4. 192 in.² 5. 56.25 m² 6. 192 cm²
7. 62.8 cm; 314.2 cm² 8. 78.5 mm; 490.9 mm²
9. 3 10. 5 11. 7 12. 10
13. 11 14. 1 15. 8 16. 9
17. 40 m
18. $7 < \sqrt{55} < 8$; about 7 19. $7 < \sqrt{63} < 8$; about 8
20. $2 < \sqrt{8} < 3$; about 3 21. $6 < \sqrt{45} < 7$; about 7
22. 3 ft x 6 ft 23. 11.7 cm 24. 24 m 25. 24 ft
26. 36.1 m 27. irrational 28. rational 29. rational
30. irrational 31. 384 m² 32. 3,870 in.² 33. 144 cm³
34. 4,084 mm³ 35. 6 m
36. Use the Pythagorean Theorem.
$$7^2 + 24^2 = 25^2$$
$$49 + 576 = 625$$
$$625 = 625$$

37. length 21 cm, width 7 cm