

Multiplying Radicals

Multiply the following.

1. $\sqrt{3} \cdot \sqrt{3}$

2. $\sqrt{5} \cdot \sqrt{5}$

3. $\sqrt{7} \cdot \sqrt{7}$

4. $\sqrt{2} \cdot \sqrt{2}$

5. $3\sqrt{2} \cdot \sqrt{2}$

6. $2\sqrt{5} \cdot \sqrt{5}$

7. $2\sqrt{5} \cdot 4\sqrt{5}$

8. $7\sqrt{3} \cdot 4\sqrt{3}$

9. $2\sqrt{5} \cdot 6\sqrt{5}$

10. $2\sqrt{7} \cdot 6\sqrt{7}$

11. $3\sqrt{x} \cdot 5\sqrt{y}$

12. $4\sqrt{x} \cdot 6\sqrt{y}$

13. $4\sqrt{x} \cdot 6\sqrt{x}$

14. $5\sqrt{y} \cdot 2\sqrt{y}$

15. $6\sqrt{z} \cdot 8\sqrt{z}$

16. $2\sqrt{z} \cdot 6\sqrt{z}$

17. $(-2\sqrt{5}) \cdot (8\sqrt{5})$

18. $(-2\sqrt{3}) \cdot (-8\sqrt{3})$

19. $(-5\sqrt{11}) \cdot (-3\sqrt{11})$

20. $(-2\sqrt{11}) \cdot (-5\sqrt{11})$

21. $3\sqrt{6} \cdot \sqrt{2}$

22. $2\sqrt{6} \cdot \sqrt{2}$

23. $2\sqrt{6} \cdot 3\sqrt{2}$

24. $\sqrt{15} \cdot 5\sqrt{3}$

25. $\sqrt{15} \cdot 2\sqrt{3}$

26. $4\sqrt{15} \cdot 2\sqrt{3}$

27. $2\sqrt{6} \cdot 5\sqrt{3}$

28. $2\sqrt{3} \cdot 5\sqrt{10}$

29. $5\sqrt{3} \cdot \sqrt{10}$

30. $5\sqrt{7} \cdot \sqrt{5}$

31. $2\sqrt{a} \cdot (-3\sqrt{b})$

32. $3\sqrt{a} \cdot (-4\sqrt{b})$

33. $4(1 - \sqrt{3})$

34. $2(1 - \sqrt{5})$

35. $\sqrt{2}(1+\sqrt{5})$

36. $\sqrt{2}(7+\sqrt{3})$

37. $\sqrt{x}(7+\sqrt{x})$

38. $\sqrt{y}(4+\sqrt{y})$

39. $\sqrt{5}(4+\sqrt{10})$

40. $\sqrt{2}(3+7\sqrt{10})$

41. $\sqrt{6}(3+7\sqrt{2})$

42. $\sqrt{6}(1+3\sqrt{3})$

43. $\sqrt{6}(\sqrt{2}-\sqrt{3})$

44. $\sqrt{6}(\sqrt{2}+\sqrt{3})$

45. $3\sqrt{6}(2\sqrt{2}+\sqrt{3})$

46. $2\sqrt{6}(4\sqrt{2}+\sqrt{3})$

47. $(1-\sqrt{2})(3+\sqrt{2})$

48. $(1+\sqrt{2})(3+\sqrt{2})$

49. $(1+\sqrt{3})(3+\sqrt{3})$

50. $(4+\sqrt{3})(2+\sqrt{3})$

51. $(2+\sqrt{5})^2$

52. $(3-\sqrt{5})^2$

53. $(3-\sqrt{2})^2$

54. $(1-\sqrt{2})^2$

55. $(1+\sqrt{2})(1-\sqrt{10})$

56. $(1-\sqrt{3})(1-\sqrt{10})$

57. $(1-\sqrt{3})(1+\sqrt{10})$

58. $(1-\sqrt{5})(3-\sqrt{10})$

59. $(\sqrt{3}+4)(\sqrt{6}-5)$

60. $(\sqrt{3}+2)(\sqrt{6}+5)$

61. $(\sqrt{x}+\sqrt{y})(\sqrt{x}-\sqrt{y})$

62. $(\sqrt{5}+\sqrt{3})(\sqrt{5}-\sqrt{3})$

63. $(\sqrt{2}+\sqrt{3})(\sqrt{2}-\sqrt{3})$

64. $(\sqrt{6}+\sqrt{3})(\sqrt{6}-\sqrt{3})$

65. $(\sqrt{7}+\sqrt{2})(\sqrt{7}-\sqrt{2})$

66. $(\sqrt{3}+\sqrt{2})(\sqrt{3}-\sqrt{2})$

$$67. (\sqrt{3} + \sqrt{2})(\sqrt{3} + \sqrt{2})$$

$$68. (\sqrt{5} + \sqrt{2})(\sqrt{5} + \sqrt{2})$$

$$69. (\sqrt{a} + \sqrt{b})(\sqrt{a} + \sqrt{b})$$

$$70. (\sqrt{11} + \sqrt{7})(\sqrt{11} + \sqrt{7})$$

$$71. (3\sqrt{5} + \sqrt{2})(3\sqrt{5} - \sqrt{2})$$

$$72. (2\sqrt{5} + \sqrt{3})(2\sqrt{5} - \sqrt{3})$$

$$73. (2\sqrt{6} + \sqrt{5})(2\sqrt{6} - \sqrt{5})$$

$$74. (4\sqrt{6} + 3\sqrt{5})(4\sqrt{6} - 3\sqrt{5})$$