

Simplifying Radicals

Simplify each of the following perfect square roots.

1. $\sqrt{49}$

2. $\sqrt{4}$

3. $\sqrt{100}$

4. $\sqrt{16}$

5. $\sqrt{1}$

6. $\sqrt{36}$

7. $\sqrt{64}$

8. $\sqrt{144}$

9. $\sqrt{25}$

10. $\sqrt{9}$

11. $\sqrt{81}$

12. $\sqrt{225}$

13. $\sqrt{a^2}$

14. $\sqrt{b^4}$

15. $\sqrt{x^4y^8}$

16. $\sqrt{121g^6f^2}$

17. $\sqrt{81a^2b^4}$

18. $\sqrt{100m^{10}n^{12}}$

19. $\sqrt{36r^4t^6}$

20. $\sqrt{169a^{16}b^4}$

21. $\sqrt{\frac{25}{36}}$

22. $\sqrt{\frac{100}{81}}$

23. $\sqrt{\frac{9}{49}}$

24. $\sqrt{\frac{1}{4}}$

Simplify each of the following square roots.

25. $\sqrt{8}$

26. $\sqrt{12}$

27. $\sqrt{18}$

28. $\sqrt{20}$

29. $\sqrt{24}$

30. $\sqrt{28}$

31. $\sqrt{32}$

32. $\sqrt{40}$

33. $\sqrt{44}$

34. $\sqrt{48}$

35. $\sqrt{50}$

36. $\sqrt{52}$

37. $\sqrt{56}$

38. $\sqrt{60}$

39. $\sqrt{68}$

40. $\sqrt{90}$

41. $\sqrt{20x^3y^4}$

42. $\sqrt{27a^2b^4}$

43. $\sqrt{50x^3y^2}$

44. $\sqrt{88g^5h^3}$

45. $\sqrt{72m^4n^5}$

46. $\sqrt{300r^5m^7}$

47. $\sqrt{8g^6h^9}$

48. $\sqrt{12c^4d^5h^6}$

49. $2\sqrt{98x^9y}$

50. $3m\sqrt{300p^7m^6}$

51. $4k^2\sqrt{9k^8b^{11}}$

52. $ch^3\sqrt{30c^6d^8h^2}$