

Practice A

1. 4 2. $\frac{1}{25}$ 3. x^4 4. a^5 5. $\frac{1}{64}$ 6. $\frac{1}{c^2}$

7. 4 8. -1 9. $\frac{1}{16}$ 10. $\frac{8}{27}$ 11. $\frac{16}{x^2}$

12. $\frac{9}{16}$ 13. $\frac{27}{m^3}$ 14. $\frac{x^4}{25}$ 15. $\frac{64}{27}$ 16. $\frac{a^{12}}{b^8}$

17. 49 18. $\frac{1}{36}$ 19. 1 20. -1 21. 128

22. 16 23. $\frac{8}{27}$ 24. $\frac{2}{3}$ 25. $\frac{x^4}{81}$ 26. x^5

27. $\frac{64}{x^6}$ 28. $\frac{1}{x^3}$ 29. x^9 30. $\frac{1}{x^2}$ 31. y^4

32. $\frac{1}{m}$ 33. 1 34. $\frac{16z^2}{3}$ 35. $\frac{2a^4}{b^3}$ 36. $\frac{27m^3n^3}{8}$

37. 2, 2.4, 2.88, 3.456 38. 1.44

Practice B**Lesson 8.4**

1. 16 2. $\frac{1}{64}$ 3. x^6 4. $\frac{1}{b^4}$ 5. y^6 6. 81
7. $\frac{1}{216}$ 8. x 9. $\frac{1}{81}$ 10. $\frac{25}{36}$ 11. $\frac{1024}{x^5}$
12. $\frac{y^3}{27}$ 13. $\frac{25}{49}$ 14. $\frac{64}{a^{15}}$ 15. $\frac{x^{48}}{y^{24}}$ 16. $\frac{c^{28}}{d^{40}}$
17. 32 18. -1 19. 125 20. 1 21. $\frac{1}{27}$
22. $\frac{49}{36}$ 23. 64 24. $\frac{9}{64}$ 25. $\frac{32}{x^5}$ 26. x^{12}
27. $\frac{1}{b^{14}}$ 28. $\frac{1}{r^3}$ 29. $\frac{1}{t^{24}}$ 30. a^{20} 31. $\frac{343y^{18}}{x^{30}}$
32. $-\frac{25y}{x^2}$ 33. $\frac{625}{81x^8y^{28}}$ 34. $\frac{9y^4}{4x^7}$ 35. $4x^3y$
36. $\frac{27y^8}{8x^9}$ 37. 100, about 51.3, about 26.3, about 13.5, about 6.9, about 3.5, about 1.8 38. about 7.4