

Answer Key

Lesson 4.6

Practice A

1. D 2. $\frac{1}{7^5}$ 3. 1 4. $\frac{1}{9^3}$ 5. $\frac{1}{12^6}$ 6. $\frac{3}{a^7}$
7. $\frac{14}{3^{-2}g^8}$ 8. 2^{-4} 9. $2^{-3} \cdot 3^{-1}$ 10. $2^{-2} \cdot 3^{-2}g^8$
11. $5h^{-4}$ 12. $6mn^{-2}$ 13. $8d^3e^{-7}$ 14. $\frac{1}{9^{11}}$
15. $\frac{1}{11^2}$ 16. $\frac{1}{5^6}$ 17. t^4 18. $\frac{1}{v^4}$ 19. $\frac{24}{s^5}$
20. $\frac{1}{10^3} = \frac{1}{1000}$ meter 21. a. $\frac{10^{-6} \text{ m}}{10^{-12} \text{ m}}$
b. 10^6 ; there are 10^6 picometers in a micrometer.
22. $\frac{1}{5^6}$ 23. $\frac{1}{10^9}$ 24. 17^8 25. $15g^2$ 26. $\frac{3}{h^{10}}$
27. $\frac{5f^{12}}{4}$ 28. 0.006 29. 0.020 30. 0.004