

- 1.** 28; 2; 4; 2; 7; $2^4 \cdot 7$ **2.** 7; 9; 7; 3; $3^2 \cdot 5 \cdot 7$
3. composite; $3 \cdot 13$ **4.** prime
5. composite; $2^2 \cdot 3 \cdot 11$
6. composite; $2 \cdot 3 \cdot 19$ **7.** prime
8. composite; $3 \cdot 5 \cdot 23$ **9.** 4 **10.** 15 **11.** x
12. $9ab^2$ **13.** *Sample answer:* $\frac{3}{2}, \frac{18}{12}$
14. *Sample answer:* $\frac{10}{14}, \frac{25}{35}$
15. *Sample answer:* $\frac{3}{7}, \frac{12}{28}$ **16.** $\frac{2}{5}$ **17.** $\frac{1}{3}$
18. $\frac{4}{3}$ **19.** $\frac{7}{2}$ **20.** $\frac{1}{20}$ **21.** $\frac{5}{2}$ **22.** 70
23. 72 **24.** $15x^3y$ **25.** $132a^2b^2$ **26.** $\frac{2}{5}$
27. $\frac{5}{2}$ **28.** $\frac{11}{12}$ **29.** this year **30.** 10^{11}
31. b^5 **32.** $6n$ **33.** = **34.** > **35.** >
36. $4x^8 \text{ cm}^2$ **37.** $\frac{1}{7^6}$ **38.** 12 **39.** $6x^4$
40. 0.0000000718 **41.** 30,000 **42.** 13,050,000
43. 4.0×10^9 bytes **44.** 7.53×10^{-10} kg