23. **a.** $y = 233(1.06)^t$; about 261.8 million
b. 2009

24. **a.** $y = 325(0.71)^t$
b. about 3.4 h

25. Power of a Power Property; Evaluate power; Rewrite in form $y = a(1 + r)^t$.

26. Power of a Power Property; Evaluate power; Rewrite in form $y = a(1 - r)^t$.

27. about 0.01%

28. about 56%

29. $y = a(1 + 0.26)^t$; 26% growth

30. $y = a(1 + 0.26)^t$; 26% growth

31. $y = a(1 - 0.06)^t$; 6% decay

32. $y = a(1 - 0.14)^t$; 14% decay

33. $y = a(1 - 0.04)^t$; 4% decay

34. $y = a(1 + 0.01)^t$; 1% growth

35. $y = a(1 + 255)^t$; 25,500% growth

36. $y = a(1 - 0.96)^t$; 96% decay

37. \$5593.60

38. quarterly ≈ \$432.11; monthly ≈ \$433.29;
daily ≈ \$433.86

39. The percent decrease needs to be subtracted from 1 to produce the decay factor;
$y = \left(\begin{matrix}\text{Initial}\\ \text{amount}\end{matrix}\right)\left(\begin{matrix}\text{Decay}\\ \text{factor}\end{matrix}\right)^t$; $y = 500(1 - 0.02)^t$; $y = 500(0.98)^t$

40. The percentage rate was not converted to a decimal;
$A = 250\left(1 + \frac{0.0125}{4}\right)^{4 \cdot 3}$; $A \approx \$259.54$

41. \$3982.92

42. \$4014.98

43. \$3906.18

44. \$3774.71