## **SELF-TEST**

- **1.** b
- **2.** b
- **3.** c
- 4. Its mean is equal to  $\mu$ . The larger the sample sizes, the more nearly the distribution approximates the normal curve; the larger the sample sizes, the smaller the standard error of the mean.
- 5. a. t(216) = 1.38, p > .05. The program has not improved reading significantly.
- **b.** 95% CI =  $28.2 \pm 1.15 = 27.05$  to 29.35
- 6. a. t(12) = -4.50, p < .01. Couples experiencing marital difficulty engaged in significantly fewer nods.
  - **b.** 99% CI =  $22.6 \pm 6.44 = 16.16$  to 29.04
- 7. a.  $\bar{X} = 58.42$ 
  - **b.**  $s^2 = 173.36$
  - **c.** *s* = 13.17
  - **d.**  $s_{\bar{x}} = 3.80$
  - e. 95% CI =  $58.42 \pm 8.36 = 50.06$  to 66.78
  - **f.** t(11) = 2.43, p < .05. Students seeking counseling exhibit more hypochondriasis than would be expected from test norms.