

Section 3-3

41. a. 95%
b. 68%
42. a. 68%
b. 99.7%
43. At least 75% of women have platelet counts within 2 standard deviations of the mean. The minimum is 150 and the maximum is 410.
44. At least 89% of healthy adults have body temperatures within 3 standard deviations of the mean. The minimum is 96.34°F and the maximum is 100.06°F.

Section 3-4

5. a. The difference is $\$3,670,505 - \$4,939,455 = -\$1,268,950$
b. $\frac{\$1,268,950}{\$7,775,948} = 0.16$ standard deviations
c. $z = -0.16$
d. Usual