

Answer Key

Testname: EX2SAMPLE6_8

- 1) B
- 2) A
- 3) A
- 4) B
- 5) D
- 6) D
- 7) D
- 8) A
- 9) C
- 10) D
- 11) D
- 12) B

13) $H_0: \mu = 30.0 \text{ g}; \quad H_1: \mu < 30.0 \text{ g}.$

Test statistic: $t = -0.80;$

P-value: 0.22. Because the P-value of 0.22 is greater than the significance level of $\alpha = 0.05$, we fail to reject the null hypothesis. There is not sufficient evidence to support the claim that the mean is less than 30 g.

14) $H_0: \mu = 520 \text{ hours}; \quad H_1: \mu \neq 520 \text{ hours}$

Test statistic: $t = 2.14;$

P-value: 0.06. Because the P-value of 0.06 is greater than the significance level of $\alpha = 0.05$, we fail to reject the null hypothesis. There is not sufficient evidence to warrant rejection of your claim that the mean is still 520 hours.