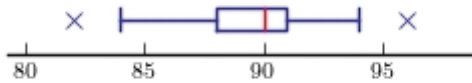


Answer Key

Testname: FINAL EXAM REVIEW - STATISTICS FOR DUAL ENROLLMENT

- 1) B
- 2) C
- 3)



- 4)



- 5) B
- 6) D
- 7) 21.2
- 8) 18
- 9) 16
- 10) 5.8
- 11) 3.3
- 12) 923.6
- 13) A
- 14) 0.265
- 15) 0.0625
- 16) 45
- 17) 720
- 18) B
- 19) D
- 20) 0.0123
- 21) 0.0016
- 22) 0.0132
- 23) 0.2420
- 24) 0.0548
- 25) 2
- 26) -0.5
- 27) 167
- 28) 189
- 29) 95%
- 30) 154
- 31) 0.9099

Answer Key

Testname: FINAL EXAM REVIEW - STATISTICS FOR DUAL ENROLLMENT

32) 3.36

33) right-tailed

34) Correct decision

35) $H_0: \mu = 5$, $H_1: \mu < 5$

36) (452, 486)

37) (4.9, 6.5)

38) (0.441, 0.552)

39) 2.38, H_0 not rejected

40) i). $H_0: \mu = 35,500$, $H_1: \mu \neq 35,500$

ii). 2.981; 11 degrees of freedom

iii). Reject H_0 . The mean annual tuition and fees appears to be different from \$35,500.

41) i). $H_0: \mu = 35,500$, $H_1: \mu \neq 35,500$

ii). TS: $t = 2.98$; $p = 0.0125$

iii). Reject H_0 . The mean annual tuition and fees appears to be different from \$35,500.

42) Yes

43) i). $H_0: \mu_1 = \mu_2$ versus $H_1: \mu_1 \neq \mu_2$

ii). -5.724

iii). Yes. There appears to be a difference in the mean weight losses.

44) $H_0: p_1 = p_2$, $H_1: p_1 \neq p_2$

TS: $z = 0.94$, $p = 0.3457$

Do not reject the null hypothesis. You cannot conclude that the proportion of people with elevated diastolic blood pressure levels differs between news-watchers and those who do not watch the news.

45) i). $H_0: \mu_d = 0$, $H_1: \mu_d \neq 0$

ii). 0.889

iii). Do not reject H_0 . There is insufficient evidence to conclude that the meandifference differs from zero.

46) 0.165

47) 0.127

48) $y = 2.2943x + 12.3590$

49) $y = -2.0000x + 6.2667$

50) Reject H_0 .

Answer Key

Testname: FINAL EXAM REVIEW - STATISTICS FOR DUAL ENROLLMENT

51) i).

	1	2	3	Row Total
A	60	56	48	164
B	89	82	94	265
C	50	98	92	240
Column Total	199	236	234	669

ii). Expected Values:

	1	2	3
A	48.783259	57.853513	57.363229
B	78.826607	93.48281	92.690583
C	71.390135	84.663667	83.946188

iii). $\chi^2 = 16.19115$

iv.) $\chi^2_{\text{crit}} = 13.277$; Reject H_0 .