

1) Homog.  $\chi^2 = .06$  p-value = .803 df = 1

2) Ind.  $\chi^2 = 268.1$  p-value = 0<sup>+</sup> df = 12

3) Homog.  $\chi^2 = .974$  p-value = .615 df = 2

4) Expected A's: 7.5 B's: 17.5 C's: 17.5 D's: 5 F's: .4

NOTE: The count condition is not met for this problem.

GOF:  $\chi^2 = 149.38$  p-value = 0<sup>+</sup> df = 4

5) Expected: morning: 19.8 afternoon: 19.8 night: 26.4

GOF  $\chi^2 = 7.75$  p-value = .0207 df = 2

6) Homog.  $\chi^2 = 7.10$  p-value = .07 df = 3

7) Homog.  $\chi^2 = 2.66$  p-value = .45 df = 3

8) Exp. value Group 1: 250 G2: 750 G3: 750 G4: 2250

GOF  $\chi^2 = 3.27$  p-value = .35 df = 3

9) No:  $\chi^2 = 10.54$  p-value = .005 df = 2