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Section 3 Chapter 8

Exercise 8.1

1. Z Score of 1.65 Prob of .0495
2. Z Score of 1.65 Prop of .4505
3. 1-.0495=.9505
4. .4483
5. .0517
6. .0517+.4505=.5022
7. .4483+.0495=.4978
8. .123
9. .3264
10. 3770 + .3264 = .7034

Exercise 8.2

1. Z test- Normality Assumption should be relaxed. This should be a one direction hypothesis. 34-32/(14.5/12) = 2/1.21 =1.65
2. T test, not relaxed. 36.5-32/3.27=1.38 df=24 .2 level of sign Wrong

Z test, 36.5-32/(14.5/5) 4.5/2.9=1.55 Do not reject your null hypothesis

1. Z=2.49 p. <.01
2. T Test, relax NA. 4.8-6/(4/10) -1.2/.4 =-3 p<.01 df=99
3. T Test, Relax 7-6/(4.5/9) 1/.5 =2 df 80 p< or = .05
4. T Test, Do not Relax, Really not probable, 8-6/(3/5.48) 2/.55=3.64 p<.001
5. T Test, Relax NA, 1.5-6/(1.25/13) -4.5/.096=46.88 p<.001
6. T-Test Do not relax, 8.5-6/1 = 2.5 p<.05

Exercise 8.3

1. 37.4-57.1/(15.2/7.07) -19.7/2.15 = -9.16 p<.001
2. 50.7-56.2/(32.4/7.07) -5.5/4.58=1.20 DNR h0 or not significant
3. 71.3-62.5/(31.6.7.07) 8.8/4.47=1.97 p<.05

Exercise 8.4

See Excel

E