Problems through #10 can be started after completion of 8.5; problems from #13 on can be started after completion of 8.6. 

Fill in the claim, null, and alternative hypothesis as indicated for each problem. 

"Conclusion in your own words" means to state the conclusion using the problem characteristics (the story). 

Ex: #1, "The sample provides evidence to support the claim that, with this method, the proportion of girl babies is over 0.5" 

8-1 Claim: _____________  
H₀: _____________  
H₁: _____________  

a. Test Statistic ________  
Critical Value ________  
P-Value ________  

Statdisk conclusion about H₀: _________________  

Conclusion about the claim in your own words _________________  

_______________________________________________________________________  

Does the method appear to work?  Y/N 

8-2 Claim: _____________  
H₀: _____________  
H₁: _____________  

a. Test Statistic ________  
Critical Value ________  
P-Value ________  

Statdisk conclusion about H₀: _________________  

Conclusion about the claim in your own words _________________  

_______________________________________________________________________  

Can the newspaper run the headline?  Y/N 

8-4 Claim: _____________  
H₀: _____________  
H₁: _____________  

a. Test Statistic ________  
Critical Value ________  
P-Value ________  

Statdisk conclusion about H₀: _________________  

Conclusion about the claim in your own words _________________  

_______________________________________________________________________  

Does the result suggest fewer applicants use drugs.?  Y/N 

8-6 Claim: _____________  
H₀: _____________  
H₁: _____________  

a. Test Statistic ________  
Critical Value ________  
P-Value ________  

Statdisk conclusion about H₀: _________________  

Conclusion about the claim in your own words _________________  

_______________________________________________________________________  

Treatment effective?  _________________
8-8  Claim: _____________  
H₀: _________________  
H₁: _________________  

a. Test Statistic ________  
Critical Value ________  
P-Value ________  

Statdisk conclusion about H₀: _________________  

Conclusion about the claim in your own words: ________________________________  

_______________________________________________________________________

8-9  Claim: _____________  
H₀: _________________  
H₁: _________________  

a. Test Statistic ________  
Critical Value ________  
P-Value ________  

Statdisk conclusion about H₀: _________________  

Conclusion about the claim in your own words: ________________________________  

_______________________________________________________________________

Are people’s watches accurate? Y/N

8-12  Claim: _____________  
H₀: _________________  
H₁: _________________  

a. Test Statistic ________  
Critical Value ________  
P-Value ________  

Statdisk conclusion about H₀: _________________  

Conclusion about the claim in your own words: ________________________________  

_______________________________________________________________________

Does it appear the new balls are different? Y/N

8-14  Claim: _____________  
H₀: _________________  
H₁: _________________  

a. Test Statistic ________  
Critical Value ________  
P-Value ________  

Statdisk conclusion about H₀: _________________  

Conclusion about the claim in your own words: ________________________________  

_____________________________________________________________________
Claim: _____________  
H₀: ________________  
H₁: ________________  

a. Test Statistic __________  
   Critical Value __________  
   P-Value __________

Statdisk conclusion about H₀: ________________  

Conclusion about the claim in your own words ________________________________
______________________________________________________________________

Question#1 ____________________________________________________________________

Question#2 ____________________________________________________________________

8-15  

Claim: _____________  
H₀: ________________  
H₁: ________________  

a. Test Statistic __________  
   Critical Value __________  
   P-Value __________  

Statdisk conclusion about H₀: _________________________________

Conclusion about the claim in your own words ________________________________
______________________________________________________________________

8-16  

Claim: _____________  
H₀: ________________  
H₁: ________________  

a. Test Statistic __________  
   Critical Value __________  
   P-Value __________

Statdisk conclusion about the null hypothesis: _________________________________

Conclusion about the claim in your own words ________________________________
______________________________________________________________________