

Problems through #10 can be started after completion of 8.5; problems from #13 on can be started after completed 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: \_\_\_\_\_  $H_0$ : \_\_\_\_\_  $H_1$ : \_\_\_\_\_

a. Test Statistic \_\_\_\_\_ Critical Value \_\_\_\_\_ P-Value \_\_\_\_\_

Statdisk conclusion about  $H_0$ : \_\_\_\_\_

Conclusion about the claim in your own words \_\_\_\_\_

\_\_\_\_\_

Does the method appear to work? Y/N

8-2 Claim: \_\_\_\_\_  $H_0$ : \_\_\_\_\_  $H_1$ : \_\_\_\_\_

a. Test Statistic \_\_\_\_\_ Critical Value \_\_\_\_\_ P-Value \_\_\_\_\_

Statdisk conclusion about  $H_0$ : \_\_\_\_\_

Conclusion about the claim in your own words \_\_\_\_\_

\_\_\_\_\_

Can the newspaper run the headline? Y/N

8-4 Claim: \_\_\_\_\_  $H_0$ : \_\_\_\_\_  $H_1$ : \_\_\_\_\_

a. Test Statistic \_\_\_\_\_ Critical Value \_\_\_\_\_ P-Value \_\_\_\_\_

Statdisk conclusion about  $H_0$ : \_\_\_\_\_

Conclusion about the claim in your own words \_\_\_\_\_

\_\_\_\_\_

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

8-6 Claim: \_\_\_\_\_  $H_0$ : \_\_\_\_\_  $H_1$ : \_\_\_\_\_

a. Test Statistic \_\_\_\_\_ Critical Value \_\_\_\_\_ P-Value \_\_\_\_\_

Statdisk conclusion about  $H_0$ : \_\_\_\_\_

Conclusion about the claim in your own words \_\_\_\_\_

\_\_\_\_\_

Treatment effective? \_\_\_\_\_

8-8 Claim: \_\_\_\_\_  $H_0$ : \_\_\_\_\_  $H_1$ : \_\_\_\_\_

a. Test Statistic \_\_\_\_\_ Critical Value \_\_\_\_\_ P-Value \_\_\_\_\_

Statdisk conclusion about  $H_0$ : \_\_\_\_\_

Conclusion about the claim in your own words \_\_\_\_\_

\_\_\_\_\_

8-9 Claim: \_\_\_\_\_  $H_0$ : \_\_\_\_\_  $H_1$ : \_\_\_\_\_

a. Test Statistic \_\_\_\_\_ Critical Value \_\_\_\_\_ P-Value \_\_\_\_\_

Statdisk conclusion about  $H_0$ : \_\_\_\_\_

Conclusion about the claim in your own words \_\_\_\_\_

\_\_\_\_\_

Are people's watches accurate? Y/N

8-12 Claim: \_\_\_\_\_  $H_0$ : \_\_\_\_\_  $H_1$ : \_\_\_\_\_

a. Test Statistic \_\_\_\_\_ Critical Value \_\_\_\_\_ P-Value \_\_\_\_\_

Statdisk conclusion about  $H_0$ : \_\_\_\_\_

Conclusion about the claim in your own words \_\_\_\_\_

\_\_\_\_\_

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

8-14 Claim: \_\_\_\_\_  $H_0$ : \_\_\_\_\_  $H_1$ : \_\_\_\_\_

a. Test Statistic \_\_\_\_\_ Critical Value \_\_\_\_\_ P-Value \_\_\_\_\_

Statdisk conclusion about  $H_0$ : \_\_\_\_\_

Conclusion about the claim in your own words \_\_\_\_\_

\_\_\_\_\_

8-15 (Data Set 17 is under "Datasets - Wts and volumes of cola - PRGVL")

Claim: \_\_\_\_\_  $H_0$ : \_\_\_\_\_  $H_1$ : \_\_\_\_\_

a. Test Statistic \_\_\_\_\_ Critical Value \_\_\_\_\_ P-Value \_\_\_\_\_

Statdisk conclusion about  $H_0$ : \_\_\_\_\_

Conclusion about the claim in your own words \_\_\_\_\_

\_\_\_\_\_

Question#1 \_\_\_\_\_

Question#2 \_\_\_\_\_

8-16 Claim: \_\_\_\_\_  $H_0$ : \_\_\_\_\_  $H_1$ : \_\_\_\_\_

a. Test Statistic \_\_\_\_\_ Critical Value \_\_\_\_\_ P-Value \_\_\_\_\_

Statdisk conclusion about the null hypothesis: \_\_\_\_\_

Conclusion about the claim in your own words \_\_\_\_\_

\_\_\_\_\_