Week 5 application solutions a. Ho: U=3 165 IT-Known T = 0.18Ha:从23 lbs $\bar{X} = 2.92$ 4 this 15 a left-tailed $\alpha = 0.01$ test because we are here to 'reesearch' Test statistic: If our machine is $z = x - \mu_0 = 2.92 - 3 = -2.67$ not filling correctly 5/VN 0.18/V36 Reyest Crestical value @ 991. force one-falled test = -2.33 -2.33 Reject to @ 991 confidence.

We found statistical underce to reject the claim that the machine is working correctly. Consumer eights may not be protected p-ratue method 0.0038 < 0.01 > Regent 2. T-unknown Ho: M ≤ 24 Ha: U>24 Degrees of Freedom Reject to Test - statistic 34 t = X-10 5/Vn 1.49 $t = \frac{24.5 - 24}{4.22 / \sqrt{35}} = 3.5047$ using +.Inv (0.05,34) Reject to at 95% confidence. We found evidence to support that temagers spend 1 (3.5047, 34) 4 0.000652 \(0.05 more than 24 how on unstagram t. dist.rt