

Confidence CH.12 - Sec. 1 Intervals CH. 128 04.10 X ±(大,)(系) X + (Z) (F) Hypothesis Testing CH.12 We do not Know of CH.11_ TEST STATISTIC $z = \frac{\overline{X} - \mu}{5\pi}$ $t = \frac{X - \mu}{5\pi}$ CH. 12 np > 5 ng > 5 Conf. Intervals - p = (Zu/z) () + (Zu/z) () TEST STATISTIC $\rightarrow Z = \frac{\hat{p} - p}{\sqrt{\frac{pq}{n}}}$

PROB. 12.4/Pg. 395
Given: X = 1500, S = 300, n = 100
ESTIMATE 95% C.I., RELLED
Pros 12.27/Pg.398
Given: N=15, Xr 12-27 T: 0-57 C T Xr 12-27
Firs: 95°2 C, I.
PROB. 12.23/Pg. 397 Given:
Hypotheses? Z = 5%
$H_o: M=6$
H: M-6
Test statistic = approx -0.68
Critical value for this left tailed test = approx -1.796
p value for this one-tailed test = approx 0.25

Decision: Do Not Reject the Null. There is not enough evidence to support the courier's advertisement.

Ch. 12 - Sec. 3 - Proportions

PROB. 12.83 Pg 419

Given: n = 400, $\hat{p} = .50$ Find: 95% C. I. of est. of prop.

To $n\hat{p} > 5$ and $n\hat{q} > 5$

0.50 ± 0.049 What is the lower confidence limit and the upper confidence limit???

EX. 12.5/Pg. 411

Xm 12-05 Data File

Hypotheses:

$$H_s: \rho = 0.50$$
 $H_i: \rho > 0.50$

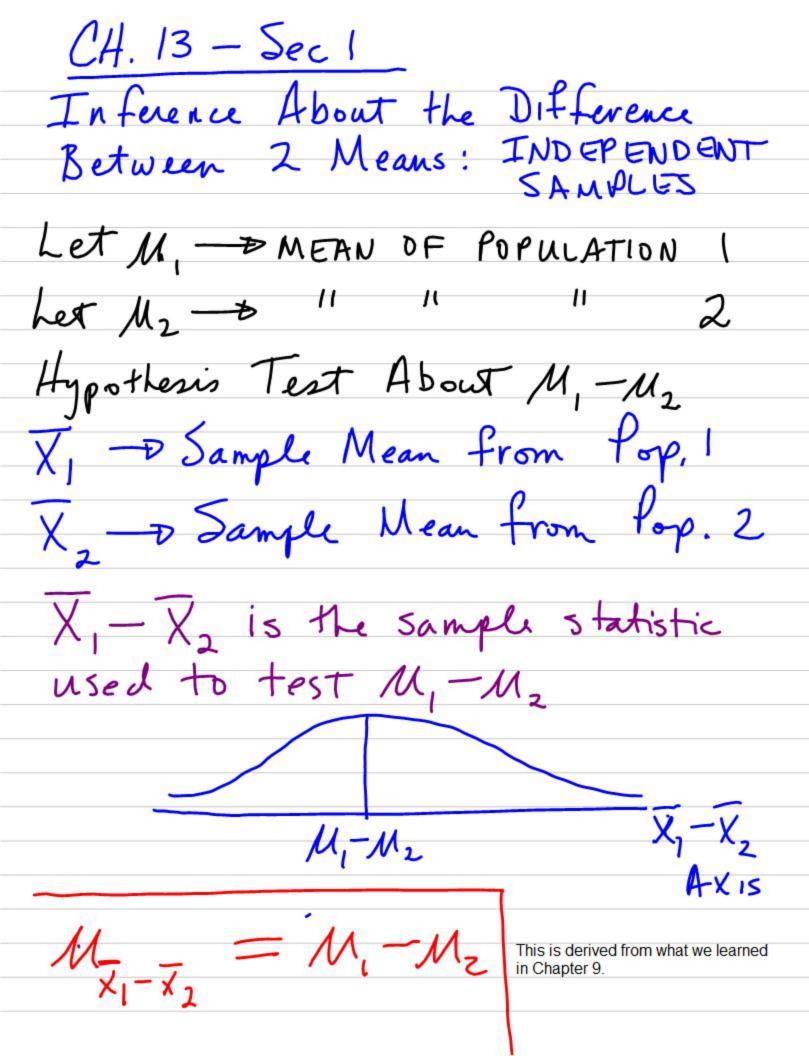
This is a textbook example. Review all parts of this example.

Prob. 12.108/fg. 421 [np >5) Hypothers? H: ρ = .90 H; ρ < .90 Critical Value? - 1.65 = Z c.v. Test Stat? Z stat = -1.578 p val? = D.058

Do Not Reject the null; There is not enough evidence to infer that the satisfaction rate is less than 90%.

$$25 + axt = -1.58$$

 $pval = .0571$



$$H_{0}: M_{1}-M_{2}=0$$

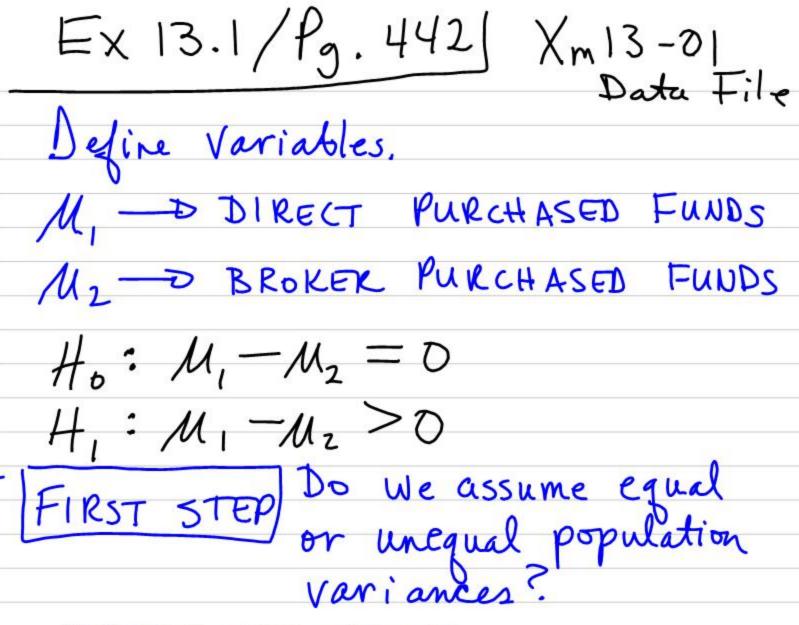
$$H_{1}: M_{1}-M_{2}\neq 0$$

$$H_{0}: M_{1}-M_{2}=0$$

$$H_{1}: M_{1}-M_{2}>0 \implies OR (M_{1}>M_{2})$$

$$H_{0}: M_{1}-M_{2}=0$$

$$H_{1}: M_{1}-M_{2}<0 \implies OR (M_{1}$$



We will complete this example at the next lecture meeting.