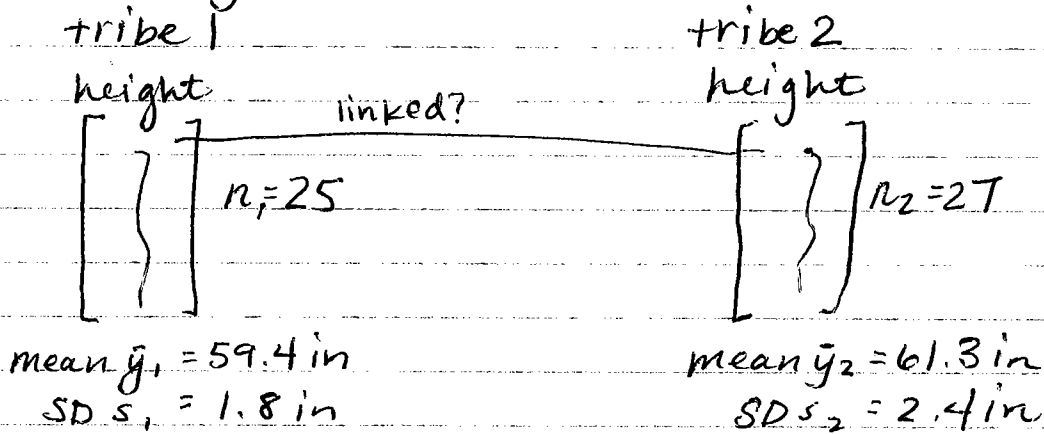


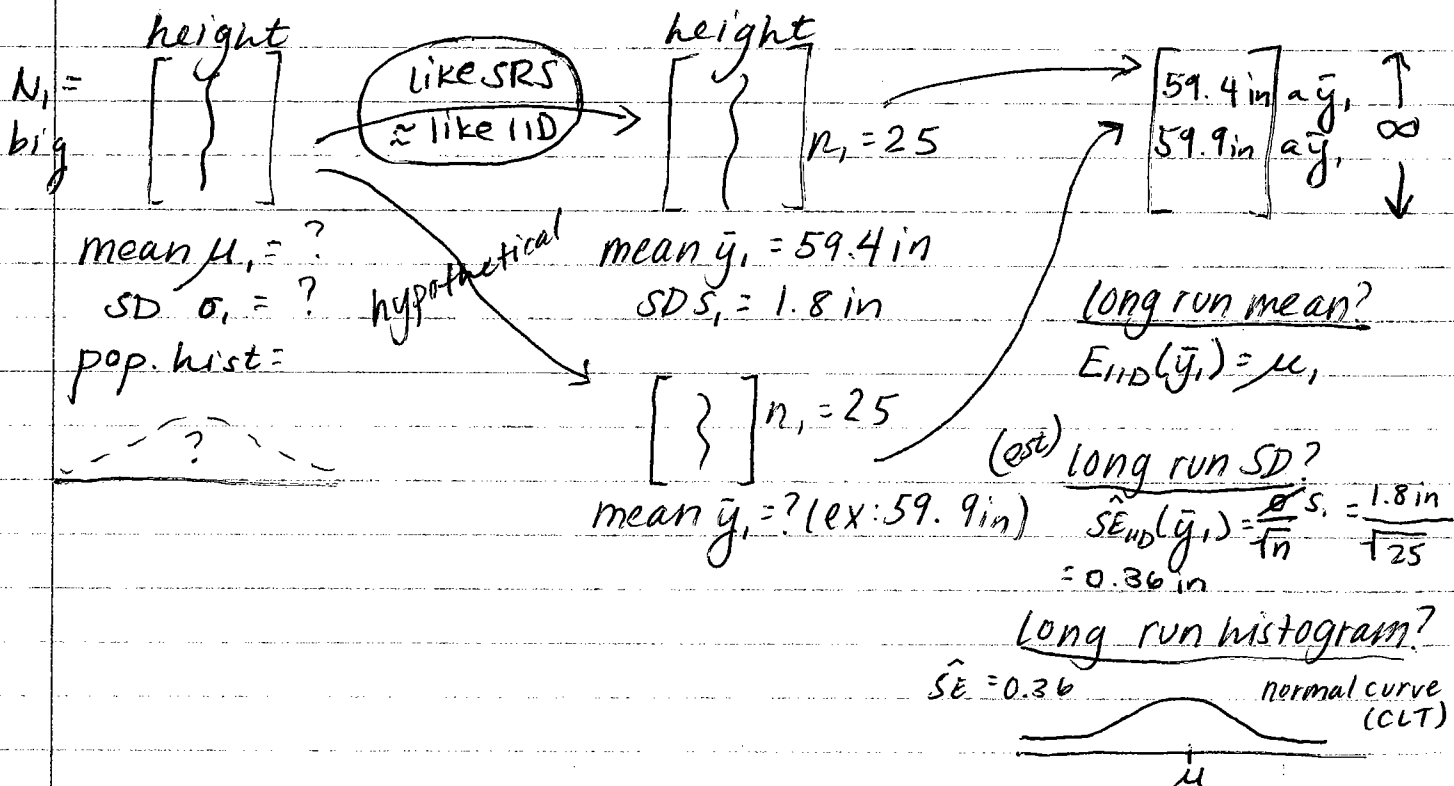
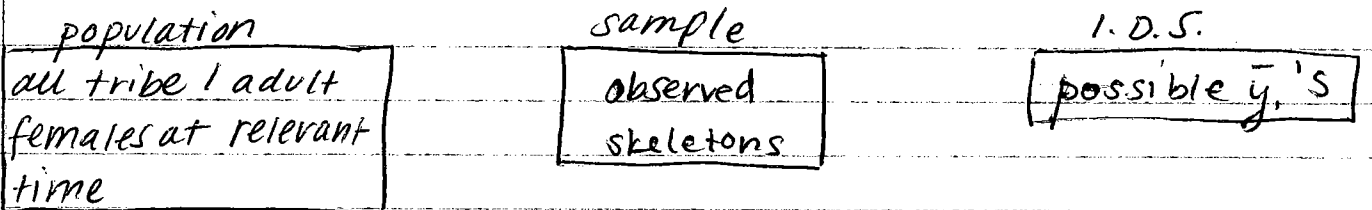
May 19, 2005 Lecture Notes VI. Comparing 2 Samples
 Reading: FPP Ch. 8, 9, (7 as review)

Case Study 15:



2 independent samples - no connection between the two

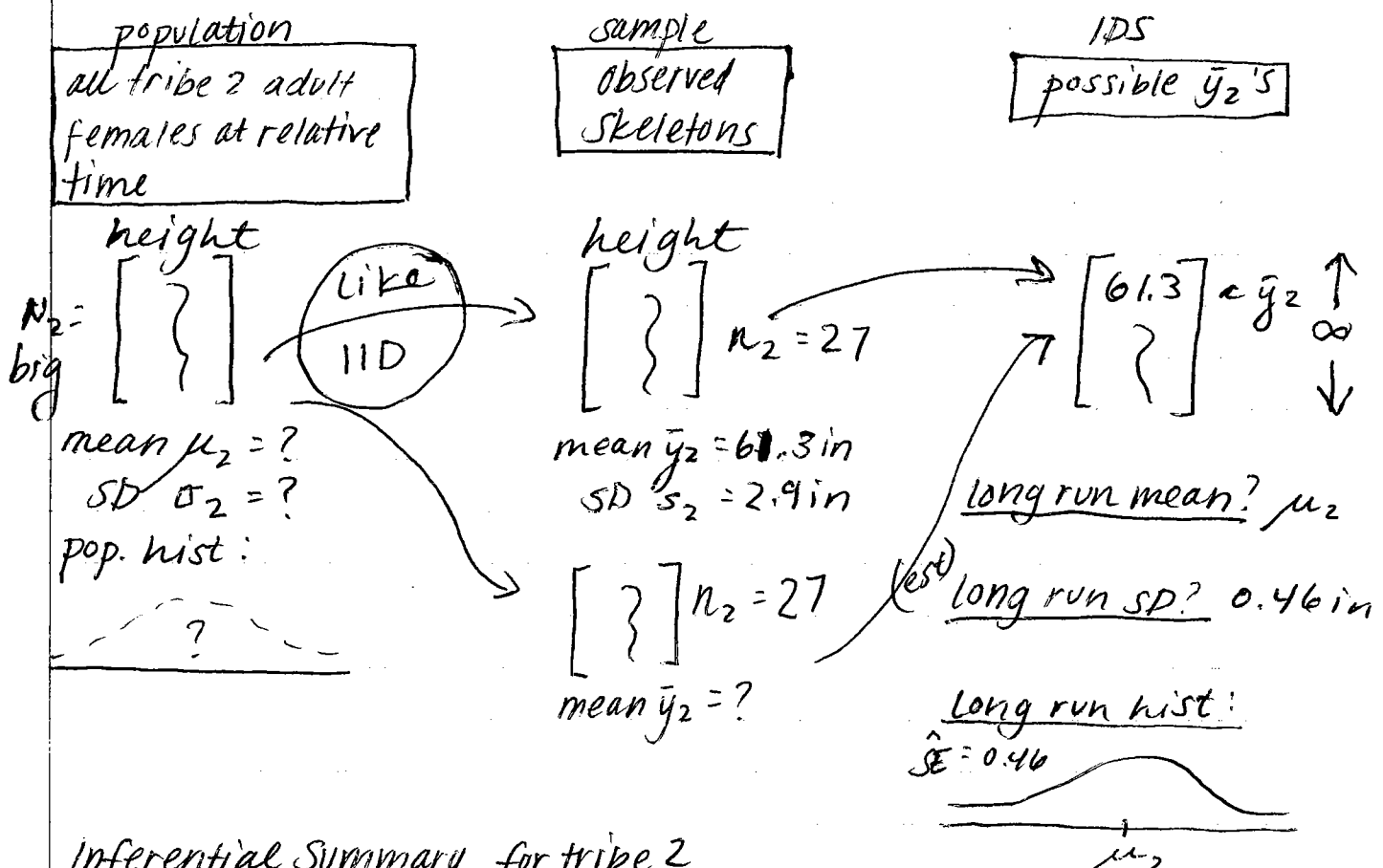
Tribes:



Inferential Summary for Tribe 1

unknown quantity of interest	$\mu_1 =$ mean height of all adult females in tribe 1
estimate	$\bar{y}_1 = 59.4$ in
give or take	$\hat{SE}_{IID}(\bar{y}_1) = 0.36$ in

Tribe 2



Inferential Summary for tribe 2

unknown quantity of interest	$\mu_2 =$ (same as tribe 1)
estimate	$\bar{y}_2 = 61.3$ in
give or take	$\hat{SE}_{IID}(\bar{y}_2) = \frac{\sigma_2}{\sqrt{n_2}} = \frac{S}{\sqrt{n_2}} = \frac{2.9 \text{ in}}{\sqrt{27}} = 0.46$ in

