

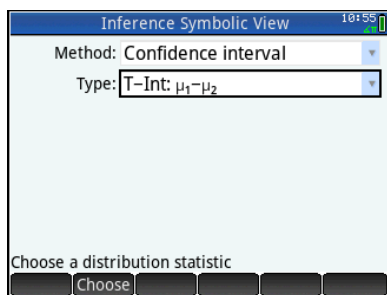


## TECHNOLOGY CORNER

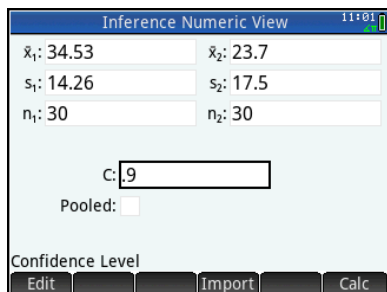
### 23. Two-sample t intervals on the HP Prime

Confidence intervals for the difference of two means using *t* distributions can be constructed using the HP Prime. We'll show you the steps using the summary statistics from the pine trees example.

- Press **Apps Info** and tap the *Inference* app icon.
- Select the **Method** field, tap **Choose** and select *Confidence Interval*
- In the **Type** field, select *T-Int:  $\mu_1 - \mu_2$*



- Press **Num** to enter the Numeric view. Enter  $\bar{x}_1 = 34.53$ ,  $s_1 = 14.26$ ,  $n_1 = 30$ ,  $\bar{x}_2 = 23.70$ ,  $s_2 = 17.50$ ,  $n_2 = 30$ , and  $C = 0.90$ . Leave **Pooled** Unchecked.



- Tap **Calc** to see the results numerically.

Results	
X	
C	.9
DF	55.7276914002
Crit. T	±1.67265978319
Lower	3.93616833284
Upper	17.7238316672
90%	
Size	
OK	

- Tap **OK** to return to the Numeric view

You can also view the confidence interval graphically.

- Press **Plot** to see the Plot view. The confidence interval is shown at the bottom. Also shown are the  $\bar{x}_1 - \bar{x}_2$  value and the critical t-values.

