Math 150, Spring 2023 Jo Hardin WU # 1 Tuesday, 1/17/2023

Your Name:	
Names of people you worked with:	

**Task**: Assume we have two very small **samples**:  $(y_{11}=3,y_{12}=9,y_{21}=5,y_{22}=1,y_{23}=9)$ . Find  $\hat{\mu}_1,\hat{\mu}_2,\hat{\epsilon}_{11},\hat{\epsilon}_{12},\hat{\epsilon}_{21},\hat{\epsilon}_{22},\hat{\epsilon}_{23},n_1,n_2$ .

## Solution:

$$\begin{array}{rcl} \hat{\mu}_1 & = & 6 \\ \hat{\mu}_2 & = & 5 \\ \hat{\epsilon}_{11} & = & -3 \\ \hat{\epsilon}_{12} & = & +3 \\ \hat{\epsilon}_{21} & = & 0 \\ \hat{\epsilon}_{22} & = & -4 \\ \hat{\epsilon}_{23} & = & +4 \\ n_1 & = & 2 \\ n_2 & = & 3 \end{array}$$