Your Name: $\qquad$

Names of people you worked with: $\qquad$

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:

$$
\begin{aligned}
\hat{\mu}_{1} & =6 \\
\hat{\mu}_{2} & =5 \\
\hat{\epsilon}_{11} & =-3 \\
\hat{\epsilon}_{12} & =+3 \\
\hat{\epsilon}_{21} & =0 \\
\hat{\epsilon}_{22} & =-4 \\
\hat{\epsilon}_{23} & =+4 \\
n_{1} & =2 \\
n_{2} & =3
\end{aligned}
$$

