The Red Bead Experiment

Employee	Day 1	Day 2	Day 3	Day 4	TOTALS
hear.					
	-				
			-		
		`			
=					
Daily Total					
Daily Average					
Grand Total			*******		
Grand Mean		*			

- 1. The central line on the chart is placed at the average count (GrandMean).
- 2. Calculate Sigma.

$$\sigma = \sqrt{GrandMean \ x \left[1 - \frac{GrandMean}{50}\right]}$$

Note, 50 is the number of depressions on the paddle (an employee's daily production

3. Calculate the Upper and Lower Control Limits:

 $GrandMean \pm 3\sigma$

4. Plot the 24 results.