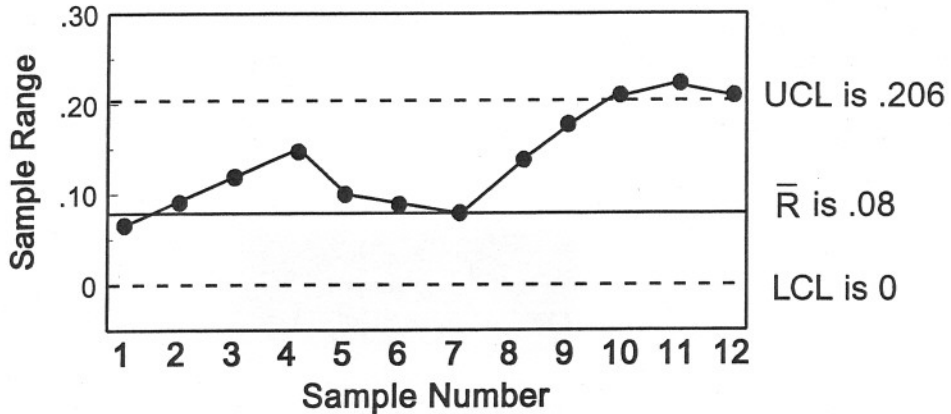
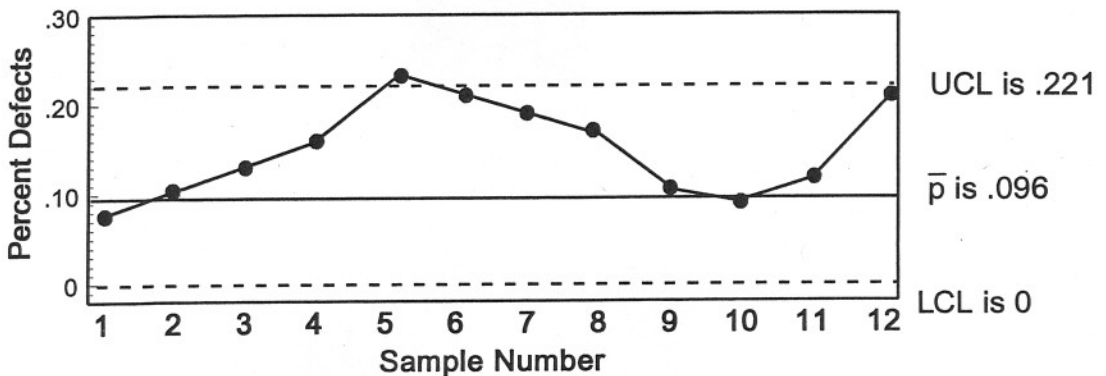


### Range Chart Weight of 30-Milligram Parts



**Analysis:** The last 3 samples were beyond the control limit and the trend seems to be increasing. Most of the data is above the center line which is not a good sign. Deciding to shut down a line that is trending out of control requires knowledge and experience concerning the manufacturing process, an analysis of the cost of shutting down, and information concerning the nonmanufacturing costs associated with poor quality. Measuring the nonmanufacturing costs associated with poor quality is a very subjective process.

### Proportion of Defects - The P Chart Defective 30-Milligram Parts



**Analysis:** Data that is trending out of control often is cyclical in nature. This data appears to be cyclical.