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Practice: Creating an I and MR Chart

Open the file **CrisisTeamData.jmp**, and use the Control Chart Builder from **Analyze**, **Quality and Process** to create an individual and moving range chart for the variables **Xf**, **Viscosity**, and **Ambient Temp**.

Hint: Create the I and MR chart for **Xf**. Then select both **Viscosity** and **Ambient Temp** in the columns list and click **New Y Chart**, and click the **Done** button. This produces I and MR charts for all three variables.

For these questions, focus on the individuals charts.

1. Which variable looks the most stable?

   The correct answer is **Xf**. None of the points are outside the control limits, and the points appear to be randomly scattered within the control limits with no obvious pattern.

2. Describe the general pattern in the chart for **Ambient Temp**.

   After an initial flat period, the mean seemed to increase. Then, at around observation 60, there is an increasing trend.

3. There are some unusual patterns in the individuals chart for **Viscosity**. Describe what you see.

   There are two groupings of points with very little variability (from observation 86 to 91 and again from 91 to 111) that are very different from the rest of the data.

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