Consider the following Interaction Plots generated using Minitab 17.





Note that there are two Interaction Plot Memphis graphs. They both represent the same data. One graph has OldEmployee on the x-axis. The other graph has OldShift on the x-axis.



The interaction Plot Miami represents different data. It has JJEmployee data on the x-axis.



The interaction Plot Macon represents different data. It has MMEmployee data on the x-axis.

Question 3 graphs

|  |  |
| --- | --- |
|  |  |

Question 1

**Consider the Interaction Plot Miami graph.**

The response is assembly times. Lower times are better.

Who is the most consistent worker, regardless of shift? **Jimmy**

Who is the least consistent worker, regardless of shift? **Mary**

Question 2

**Consider the two Interaction Plot Memphis graphs.**

Who is the most consistent worker, regardless of shift? **Jimmy**

Which Memphis graph shows this concept most clearly? **X axis Employee**

Who has the lowest average? **Jimmy**

Which Memphis graph shows this concept most clearly? **X axis Employee**

Question 3

**Consider the following data.**

|  |  |  |
| --- | --- | --- |
|  | am | pm |
| Johnny | 8.3 | 9.2 |
|  | 8.1 | 9.3 |
|  | 9.1 | 8.7 |
| Jimmy | 10.2 | 9.3 |
|  | 9.9 | 10.9 |
|  | 9.5 | 10.5 |
| Mary | 9.9 | 10.3 |
|  | 10.8 | 10.5 |
|  | 9.5 | 10.7 |

Does this data match Interaction Plot Number One or Interaction Plot Number Two? Justify your answer.

**Plot number One matches Mary’s high performance in AM and PM. Graph Two shows Mary lower in the afternoon.**

Save the file as MondaySept281130graphyourname. Email it to me before 1pm.