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?

Who is the least consistent worker, regardless of shift?

Question 2

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

Who is the most consistent worker, regardless of shift?

Which Memphis graph shows this concept most clearly?

Who has the lowest average?

Which Memphis graph shows this concept most clearly?

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.

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