

Game 7 – Psychiatrist

A psychiatrist is scheduling individual meetings with six patients—Helen, Jacynthe, Kavik, Leonardo, Micah and Ruth. Each of the meetings will be for one hour, with the first beginning at 1:00 and the last beginning at 6:00. The following conditions apply:

Ruth meets with the psychiatrist after Micah does.

Helen meets with the psychiatrist after Kavik does.

Jacynthe's meeting is either immediately before or immediately after Leonardo's.

There is exactly one meeting in between the meetings of Jacynthe and Micah.

- Which one of the following could be a complete and accurate schedule of the meetings, listed from 1:00 to 6:00?
 - Leonardo, Kavik, Helen, Micah, Ruth, Jacynthe
 - Leonardo, Jacynthe, Kavik, Helen, Micah, Ruth
 - Leonardo, Helen, Jacynthe, Kavik, Micah, Ruth
 - Ruth, Micah, Kavik, Jacynthe, Helen, Leonardo
 - Micah, Kavik, Jacynthe, Leonardo, Helen, Ruth
- What is the earliest that Helen's meeting could be?
 - 1:00
 - 2:00
 - 3:00
 - 4:00
 - 5:00
- Which one of the following must be true?
 - Micah's meeting is either at 1:00 or at 5:00.
 - Jacynthe's meeting is before Helen's.
 - Leonardo and Micah do not meet with the psychiatrist during hours directly next to each other.
 - Kavik and Helen do not meet with the psychiatrist during hours directly next to each other.
 - Ruth's meeting is, at the earliest, one hour before Jacynthe's.
- If Leonardo meets with the psychiatrist at 1:00, which one of the following could be true?
 - Micah meets with the psychiatrist at 2:00.
 - Ruth meets with the psychiatrist at 3:00.
 - Kavik meets with the psychiatrist at 5:00.
 - Micah meets with the psychiatrist at 5:00.
 - Ruth meets with the psychiatrist at 6:00.
- Which one of the following must be true?
 - If Kavik meets before Ruth, Micah meets before Kavik
 - If Jacynthe meets before Helen, Kavik meets before Jacynthe.
 - If Ruth meets before Kavik, Micah meets before Helen.
 - If Micah meets before Jacynthe, Jacynthe meets before Ruth.
 - If Kavik meets before Micah, Helen meets before Micah.
- The order of the meetings with the psychiatrist can be completely determined if which one of the following is true?
 - Micah meets immediately before Leonard.
 - Ruth meets immediately before Kavik.
 - Helen meets immediately before Jacynthe.
 - Kavik meets immediately before Leonard.
 - Micah meets immediately before Kavik.

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1. E
2. B
3. E
4. E
5. C
6. D

Question 1 is the standard testing of the rules, and looking at the rule and excluding which answer choice breaks it should get you the answer. On the second question, the only rule pertaining to Helen is that she must be behind Kavik. Nothing else limits her forward spots. Try and develop the ability to analyze rules in this fashion, i.e., seeing if they limit an element being forward or backward.

The key to Question 3 is that Jacynthe is at most one space behind Micah, and since Ruth must be behind Micah, Ruth can at most go in that one space (in which case Leonard is immediately behind Jacynthe). On Question 4, if Leonardo is in first, Jacynthe is in second based on the rules, which puts Micah in fourth. From there we can deduce that Kavik is third, since Helen is after Kavik and Ruth is after Micah. This arrangement excludes the four wrong answers.

On Question 5, if Ruth is before Kavik, then Micah must be before Helen, since Ruth is after Micah and Helen is after Kavik. For Question 6, if Kavik is before Leonard, Jacynthe must immediately follow Leonard, and then one space separates Leonard from Micah. This space can only be filled by Helen because Ruth must follow Micah. The other answers do not completely place the variables; for example, C does not place all the variables because Micah could go before Helen as well as two spaces after.