

## Game 21 – Expert Witnesses

Six different expert witnesses—Feinberg, Lopez, Marx, Pyong, Samson and Tetlow—are all asked to testify at a trial. The determination of which experts testify is governed by the following conditions:

If Lopez testifies, Pyong does not.

If Samson does not testify, Lopez does.

If Marx testifies, both Pyong and Tetlow testify.

If Tetlow testifies, then either Feinberg or Samson or both testify.

At least one expert witness testifies.

- Which of the following could be a complete and accurate list of the expert witnesses who testify?
  - Marx, Pyong
  - Pyong, Samson
  - Marx, Pyong, Tetlow
  - Marx, Samson, Tetlow
  - Lopez, Marx, Pyong, Tetlow
- If only one expert witness testifies, that expert witness could be
  - Feinberg
  - Marx
  - Pyong
  - Samson
  - Tetlow
- Each of the following could be a complete and accurate list of the expert witnesses who testify EXCEPT
  - Lopez, Samson
  - Samson, Tetlow
  - Feinberg, Lopez, Tetlow
  - Marx, Pyong, Samson, Tetlow
  - Feinberg, Lopez, Marx, Pyong, Tetlow
- If Tetlow does not testify, which one of the following must be true?
  - Lopez testifies.
  - At least two of the expert witnesses testify.
  - At most three of the expert witnesses testify.
  - Neither Marx nor Pyong testifies.
  - Neither Marx nor Feinberg testifies.
- If Tetlow testifies, which one of the following CANNOT be true?
  - Feinberg does not testify.
  - Samson does not testify.
  - Pyong does not testify.
  - Pyong testifies but Marx does not.
  - Pyong testifies but Samson does not.
- If the condition that Lopez testifies if Samson does not is suspended, but all other conditions remain in effect, then each of the following is a complete and accurate list of the witnesses who testify EXCEPT
  - Pyong
  - Feinberg, Pyong
  - Marx, Pyong, Tetlow
  - Feinberg, Pyong, Tetlow
  - Feinberg, Marx, Pyong, Tetlow

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

Question 1 is the standard testing of the rules, and four of the answers break one of the rules. On Question 2, the key is the inference from the second rule. This rule means that either Samson or Lopez, or both, must testify, since if one is not there, the other must be there. In Question 3, answer E breaks the first rule.

On Question 4, you can deduce that Marx cannot testify (since if Marx did, Tetlow would) and thus there can be up to three experts since Lopez and Pyong can't both testify. On Question 5, Pyong and Lopez can't both testify, so if Pyong testifies, Samson has to. The final question is a matter of seeing which response breaks a rule. C breaks the rule about Tetlow, Feinberg and Samson.