

## Game 24 – Painters

A crew of painters will paint exactly six buildings—M, N, O, Q, R and S. The buildings will be painted one at a time, and each building will be painted exactly once. Three of the buildings will be painted on Monday; the other three will be painted on Tuesday. The following conditions apply:

N is painted before M.

R and O are both painted before S.

Both Q and R are painted after M.

- Which one of the following could be true?
  - M is the third building painted on Monday, and R and O are the first and second buildings painted on Tuesday, respectively.
  - N is the first building painted on Monday, and R and Q are the second and third buildings painted on Tuesday, respectively.
  - Q is the third building painted on Monday, and R and S are the first and second buildings painted on Tuesday, respectively.
  - Q is the third building painted on Tuesday, and N and R are the first and third buildings painted on Monday, respectively.
  - S is the third building painted on Tuesday, and O and R are the second and third buildings painted on Monday, respectively.
- If R is the second building painted on Tuesday, which one of the following must be true?
  - N is the first building painted on Monday.
  - M is the second building painted on Monday.
  - O is the third building painted on Monday.
  - Q the first building painted on Tuesday.
  - S is the third building painted on Tuesday.
- Which one of the following CANNOT be true?
  - M is painted after S.
  - N is painted after O.
  - R is painted after Q.
  - O is painted after M.
  - Q is painted after R.
- If Q is the third building painted on Monday, then which one of the following CANNOT be true?
  - R is painted immediately before S.
  - R is painted immediately before O.
  - O is painted immediately before M.
  - Q is painted immediately before R.
  - O is painted immediately before S.
- Of the three different places on each day, how many could be the place in order that O is painted?
  - two
  - three
  - four
  - five
  - six
- If O is painted after R, which one of the following must be true?
  - M is painted immediately after N.
  - R is painted immediately after Q.
  - S is painted immediately after O.
  - Q is painted immediately after M.
  - R is painted immediately after M.

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

Don't let the business of days fool you on this question—it's a matter of putting the elements in order. First, second, and third on the second day are the same as fourth, fifth and sixth. One thing that may help is using brackets or spaces to designate that the first three will be a day as well as the second three.

The first question is the standard rule testing question, and all the incorrect answers violate a rule. Question 2 is based on the deduction that S must be after R, and thus last (third on Tuesday). Question 3 is A because M must be before R, which is before S.

On Question 4, because N and M must be ahead of O, they must be first and second on Monday. On Question 5, you can deduce that O can be in five spots because it only must be ahead of S. (Hopefully you are developing the skill of seeing which rules will limit an element's spots) On the sixth question, Q, R, and S all must be after M, so the only that can come between N and M is O—meaning they are adjacent if O is elsewhere.