

## Game 4 – Roofing Company

A roofing company will do work on six different buildings—G, H, I, K, L and M. Each of the buildings is either receiving new roofing or receiving repairs. The company will work on each of the buildings one at a time until finished. The following conditions apply:

M is either the third or the fourth building, and will receive repairs.

A building in need of new roofing will be worked on after H but before L.

K is worked on immediately after G.

1. Which one of the following could be a complete and accurate list of the buildings in the order the roofing company works on them?

- A. I, H, M, G, K, L
- B. H, K, G, M, I, L
- C. G, K, M, H, L, I
- D. H, M, L, I, G, K
- E. G, K, H, M, L, I

2. If G is the fifth building worked on, which building must receive new roofing?

- A. H
- B. I
- C. K
- D. L
- E. M

3. Which one of the following could be true?

- A. G is the third building the roofing company works on.
- B. H is the fifth building the roofing company works on.
- C. L is the third building the roofing company works on.
- D. I is the fourth building the roofing company works on.
- E. L is the second building the roofing company works on.

4. If H is the second building the company works on, which one of following CANNOT be true?

- A. M is the third building worked on.
- B. I is the first building worked on.
- C. Both G and H will receive repairs.
- D. Both K and I will receive repairs.
- E. Both G and K will receive repairs.

5. If L is the fourth building the company works on, each of the following must be true EXCEPT

- A. The second building the roofing company works on receives new roofing.
- B. The third building the roofing company works on receives repairs.
- C. The fourth building the roofing company works on receives repairs.
- D. H is the first building the roofing company works on.
- E. K is the last building the roofing company works on.

6. Which one of the following is a complete and accurate list of the buildings, any one of which could be the first building the roofing company works on?

- A. H
- B. G
- C. H, I
- D. G, I
- E. H, G, I

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

This is a game of both order and qualities. Remember that often you'll only be given the element or the quality of the element, not both, and have to make deductions on this basis.

On Question 1 four choices breaks a rule. For the second question, G in fifth means K in sixth, and H and the building receiving new roofing after it, I, up front. In Question 3, four of the choices break rule.

Question four is E because there must be a new construction between H and L. In Question 5, C means the entire order can be placed out since if L is fourth, M is third, and H and a new construction are first and second. Question 6 is a bit of tricky inference—you have to be able to see that H, G, and I all work. Remember that often on list questions like this it's helpful to test an element such as H or I and then either exclude answers with it if it doesn't work, or exclude answers without it if it does.