

## Lab Projects

**Directions:** Each group of questions in this section is based on a set of conditions. In answering some of the questions, it may be useful to draw a rough diagram. Choose the response that most accurately and completely answers each question and blacken the corresponding space on your answer sheet.

### Questions 1–8

Envirolab will schedule three projects—F, G, and H—to their lab facilities over a five-week period. Exactly one project will be assigned to each of the five weeks, and each project will be assigned at least once. One of the projects is made up of eight researchers, one is made up of ten researchers, and one is made up of twelve researchers. The scheduling of the lab must conform to the following constraints:

- Project F is assigned to more weeks than project H.
- There are more researchers assigned to project H than project F.
- More researchers are assigned to week three than are assigned to either week one or week two.
- The project assigned to week two does not have eight researchers.
- Project F is assigned to week four.

1. Which one of the following could be an accurate schedule of projects for the five weeks, listed in order from week one to week five?
  - (A) G, H, F, F, F
  - (B) G, G, H, F, F
  - (C) F, F, H, G, F
  - (D) H, H, G, F, G
  - (E) F, F, H, G, G
2. If there are more researchers assigned to week one than week five, how many different possible schedules for the projects could be made?
  - (A) 2
  - (B) 4
  - (C) 6
  - (D) 8
  - (E) 10
3. If project F has ten researchers, then which one of the following could be a partial assignment of projects to weeks?
  - (A) week two: project F; week three: project F
  - (B) week two: project H; week three: project F
  - (C) week one: project H; week two: project F
  - (D) week one: project G; week two: project F; week five: project H
  - (E) week one: project G; week two: project F; week four: project F
4. Which one of the following weeks must have twelve researchers assigned to it?
  - (A) week one
  - (B) week two
  - (C) week three
  - (D) week four
  - (E) week five
5. If project G has twelve researchers, which one of the following is a complete and accurate list of the weeks to which project F must be assigned?
  - (A) four
  - (B) two and four
  - (C) one and four
  - (D) one, two, and five
  - (E) one, four, and five
6. If ten researchers are scheduled for week one, which one of the following CANNOT be true?
  - (A) project G is scheduled for week one
  - (B) project F is scheduled for week two
  - (C) project H is scheduled for week five
  - (D) project F is scheduled for week five
  - (E) project H is scheduled for week three
7. If the condition that more researchers are assigned to week three than are assigned to week one or week two is replaced with the condition that more researchers are assigned to week one and week two than are assigned to week three, and if all other conditions remain in effect, then each of the following could be true EXCEPT:
  - (A) F is assigned to week one
  - (B) H is assigned to week three
  - (C) G is assigned to week three
  - (D) H is assigned to week three and G is assigned to week five
  - (E) G is assigned to week one and H is assigned to week five
8. Which one of the following conditions, if substituted for the condition that project F is assigned to more weeks than project H, would have the same effect in determining the schedule of projects?
  - (A) Project G is assigned to one or two weeks.
  - (B) Project H is assigned to exactly one week.
  - (C) Project F is assigned to more weeks than project G.
  - (D) Project G is assigned to a maximum of two weeks, and project H is assigned to a maximum of one week.
  - (E) Project F is assigned to a maximum of three weeks, and project G is assigned to a maximum of two weeks.

LAB PROJECTS (MANHATTAN LSAT)

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|----|---|----|---|
| 1. | B | 8. | D |
| 2. | A |    |   |
| 3. | E |    |   |
| 4. | C |    |   |
| 5. | C |    |   |
| 6. | C |    |   |
| 7. | D |    |   |

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