

Sample Test Material for:

Logical reasoning

Test material will be presented in a multiple-choice question format.

There are 15 questions in this subject area.

Test Task: You will be presented with one or more pieces of information in the question stem and a number of related statements in the answer choices. You must use logic to determine the validity of the statements as they relate to the pieces of information presented.

SAMPLE QUESTION:

A program was created to educate citizens on the dangers of lead paint in older residential buildings. One of the program goals was to provide participants with information on how to safely contain or remove lead paint from their homes. If the program obtains funding from the Special Programs Fund for 2011, it will be able to continue for another year. If the program is terminated, program staff will be reassigned. The program currently has fifteen staff members, including the Director.

From the information given above, it can be validly concluded that

- A. If the program is unable to continue for another year, the program did not obtain funding from the Special Programs Fund for 2011.
- B. If the program will be able to continue for another year, the program obtained funding from the Special Programs Fund for 2011.
- C. If program staff are reassigned, the program was not terminated.
- D. If program staff are not reassigned, the program was terminated.

The correct answer to this sample question is Choice A.

Solution:

To answer this question correctly, you must recognize that the statement *“If the program obtains funding from the Special Programs Fund for 2011, it will be able to continue for another year.”* has several logical implications. One implication is that obtaining funds inevitably leads to the program being able to continue for another year. There may be many ways in which the program can be continued for another year. However, if the program cannot continue for another year, then no method of continuing it was obtained, including obtaining funding from the Special Programs Fund. Therefore choice A is correct.

Choice B is incorrect because there may be several ways of ensuring that the program continues for another year. Choices C and D are direct contradictions of the statement *“If the program is terminated, program staff will be reassigned.”* Therefore, choices C and D must be false.