

## Logic Puzzle 1

A candy shop owner has six kinds of candy that needs to be placed on a three shelf display. The six types of candy are fruity candy A, B, and C and chocolate candy D, E, and F. Any of the shelves may remain unoccupied and they are shelves 1, 2, and 3 from top to bottom. The candy placement must coincide with the following conditions:

- D and F cannot be on the same shelf
- A must be on the shelf directly above the shelf that F is on
- No one shelf can hold all three fruity candy
- E cannot be on the middle shelf

### Question 1:

If B and C are on the middle shelf, which must be true?

- 1. E if on the top shelf
- 2. F is on the middle shelf
- 3. D is on the bottom shelf
- 4. B and D are on the same shelf
- 5. A and E are on the same shelf

### Question 2:

If no chocolate candy is on the bottom shelf, which candy must be on the same shelf?

- 1. A and B
- 2. F and C
- 3. F and B
- 4. E and D
- 5. B and C



Question 3:

If D is on the middle shelf, which of the following must also be on the middle shelf?

- 1. E
- 2. B
- 3. A
- 4. F
- 5. C

Question 4:

If the top shelf remains empty, which of the following must not be true?

- 1. C and A are on the same shelf.
- 2. There are exactly three types of candy on the middle shelf.
- 3. B and C are on the same shelf.
- 4. There are exactly two types of candy on the bottom shelf.
- 5. B and E are on the same shelf.

### Question 5:

If F and B are on the same shelf, and if one of the shelves remains empty, which of the following must be true?

- 1. If C is on the bottom shelf, then D is on the middle shelf.
- 2. E and F are on the same shelf.
- 3. If C is on the middle shelf, then D is on the bottom shelf.
- 4. A and E are on the same shelf.
- 5. If D is on the middle shelf, then C is on the top shelf.



# Logic Puzzle 1 Answers

- 1. 2
- 2. 4
- 3. 3
- 4. 4
- 5. 1