

## Materials:

- Video of the puzzle
- Sheets of paper
- Pencils


## PUZKGING CARTCON <br> - CONPERT SEATS -

## The puzzle

Anne, Brigitte, Eve, Olga and Sophie want to make sure they will have tickets for a concert.

So, all five of them get to the ticket office before its opening to line up.

- Olga is closer to the ticket office than Brigitte, but she is behind Sophie.
- Anne and Sophie are not directly one behind the other.
- Eve is not directly close by Anne, Olga, nor Sophie.


In what order are they lined up, starting from the ticket office?


## The answer:

The order is: Sophie, Olga, Anne, Brigitte and Eve.

## The solution:

1. Based on the first clue, we know that Sophie is closer to the ticket office than Olga and Brigitte. We also know that Olga is in between Sophie and Brigitte. They are then placed in the following way. However, other people might be in front, in between or behind them.

## Billetterie Sophie

2. Based on the second clue, we know that Anne is not next to Sophie. She can be in front of Olga, but only if Eve is directly in front of her. She can also be behind Sophie, but only if Eve is between them. Plus, she can be in between Olga and Brigitte or behind Brigitte.

We then have four options:
A) Ticket office
Anne Eve
Sophie
Olga
Brigitte
B) Ticket office Sophie Eve
Anne
Olga
Brigitte
C) Ticket office
Sophie
We do not know where Eve is yet.
D) Ticket office Sophie
We do not know where Eve is yet.

Brigitte
Anne
3. Based on the third clue, we know that Eve is not close by Anne, Olga, nor Sophie. So, we can eliminate option A and option B, since Eve was close by Anne. Option D is not possible, since every spot where we can place Eve, she is close by Anne, Olga or Sophie. Therefore, there is only one possible answer, option C:


