Exercise 1	Calc. : 🗡
Calculate:	
$1. \binom{5}{3}$	1 mark
$2. \binom{201}{1}$	1 mark

Exercise 2

The PIN code of a bank card consists of 5 digits.

1. How many different PINs can you create?

2. Lisa has a PIN code that consists of 5 digits. Unfortunately, she forgot her PIN. She remembers that her PIN code begins with the number 418 and she also remembers that the numbers 0 and 9 do not appear in her PIN code. How many PIN codes are still possible?

A class consists of 6 Flemish and 3 Dutch pupils. In this class we select a team of 3 students for the student council.

1. How many different teams of 3 students can be formed?

2. How many different teams of 3 students can be formed if each team has at least 1 Flemish and 1 Dutch representative?

Exercise 5 Calc. : X In an ice cream parlor you can choose from 2 flavors of ice cream: chocolate or vanilla. A combination of flavors is not allowed. You can get the ice cream in a cone or a cup. In this ice cream parlor, 50% of the customers choose a cone and 50% opt for a cup. 35% of customers choose a cup with chocolate ice cream. 20% of customers take vanilla ice cream. 1. A new customer enters the ice cream parlor. Calculate the probability that the customer 4 marks chooses a cone with vanilla ice cream. 2. The next customer chooses vanilla ice cream. Calculate the probability that this customer 4 marks wants a cone. 3. Are the events "choosing a cone" and "choosing chocolade ice cream" independent events? 4 marks Explain your answer.