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

Exercise 2

Exercise 2	Calc. : 🗡
The PIN code of a bank card consists of 5 digits.	
1. How many different PINs can you create?	3 marks
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?	

Exercise 3 Calc. : X 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? 3 marks2. How many different teams of 3 students can be formed if each team has at least 1 Flemish 3 marksand 1 Dutch representative?

Exer	cise 4						(Calc. : 🗡
The	probability	distribution of a	a stochastic var	iable X is give	en.			
	r	0	1		3	1		
	л 	1	1	2	1	1		
	P(X = x)	$\overline{10}$	5	$\overline{5}$	5	$\overline{10}$		
1.	1. Explain why this table is a probability distribution.							marks
2.	2. Calculate the expected value of X .							marks
3.	3. Calculate $P(X > 2)$.							marks
4.	4. Calculate $P(X < 4)$.							marks

Exercise 5	Calc. : 🗡			
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 chooses a cone with vanilla ice cream.	4 marks			
2. The next customer chooses vanilla ice cream. Calculate the probability that this customer wants a cone.	4 marks			
3. Are the events "choosing a cone" and "choosing chocolade ice cream" independent events? Explain your answer.	4 marks			