Exercise 1	Calc. : 🗡
In a box of 4 matches one is shorter than the others. Four players pick a match one after the	
other. Whoever picks the short match loses.	
1. Show, with the aid of a tree diagram the probabilities of each player getting the short match.	4 marks
2. Give the following probabilities:	4 marks
• The first player loses:	
• The second player loses:	
• The third player loses:	
• The fourth player loses:	
3. Does it have an effect on the outcome whether you are the first to choose the match or the last?	2 marks

Exercise 2						Calc. : 🗡
In a box of chocolates, we find 24 different chocolates. 18 chocolates are made from milk chocolate and 6 are made from white chocolate. Two thirds of the milk chocolates have a marzipan filling.						
In total there are 16 chocolates with a marzipan filling in the box.						
1. Complete the following two-way table.					5 marks	
Marzipan	Chocolate	Milk Chocolate	White Chocolate	Total		
With						
Without						
Total						
2. If a chocolate is picked at random from the full box, calculate the probability that it would be a white chocolate one without a marzipan filling.					ould	2 marks
3. Given that a chocolate chosen at random from the full box is a white chocolate, calculate the probability that it has a marzipan filling.					late	2 marks

Exercise 3	Calc. : 🗡
Solve the following equations:	
1. $3(x-2) = 6$	2 marks
2. $-5x + 3 = 2x + 10$	2 marks
3. $4 = -2(x + 3)$	2 marks
4. $1 = 3(x - 2) + 3 - 2x$	2 marks
5. $x^2 - 2x - 3 = 0$	2 marks
6. $x^2 - 4x + 4 = 0$	2 marks







