Exercise 1		Calc. : X
	Sketch the graph of the parabola $y = x^2 - 2x - 8$ .	7 marks
	Your sketch must show the coordinates for any points of intersection with the coordinate axes	
	and the coordinates of the vertex.	

Exercise 2	Calc.: X
Find the x-coordinates for the stationary points of the function	5 marks
$y = x^3 + x^2 - 5x - 6$	
And determine whether or not a stationary point is a local minimum or maximum.	
Note: There is no need to calculate the value of the y coordinate in this question.	

Exercise 3	
A single unbiased die has its faces labelled 1, 1, 2, 2, 3, 4.	
A player throws the die twice and adds up the numbers to get a final score.	
Use a 2-dimensional grid, or any other suitable way, to solve the following:	
1. Calculate the probability that the final score is 3.	2 marks
2. Given that the 1 <sup>st</sup> time the die was thrown it was even, calculate the probability that the final score will be even.	3 marks

]	Exercise 4	Calc. : 🗶	
	The 3 <sup>rd</sup> term of a sequence of numbers is 10 and the 5 <sup>th</sup> term is 16.		
	Given that the sequence follows an arithmetic progression calculate:		
	1. The 1 <sup>st</sup> term and the common difference.	2 marks	
		_	
	2. The sum of the first 10 terms.	3 marks	

Exercise 5	Calc.: 🗶
The results of 11 students in a test are as follows:	
3, 7, 8, 8, 10, 9, 10, 12, 14, 7, 1	
1. Calculate the 5 number summary.	2 marks
2. State the interquartile range.	1 mark
3. Test for outliers and say if any numbers are outliers.	2 marks