Names:			
Mat	h 1120	Permutations and Combinations	02/29/2012
1	. How many differe	nt ways can the letters of the word ABACUS be rearran	nged?
2	. How many differe	ent ways can the letters of the word ABACUS be rearra	anged given that we assume
		irectly before the S (i.e. strings such as BAAUSC or AU	
3	. A man can hit a target exactly one	target 25% of the time. If he fires 4 shots, what is the ce?	probability that he hits the

4	. From a pack of 40 colored pencils I am going to randomly pick 5. Out of the 40 pencils, 10 are red, 5 are blue, 8 are green and the rest are yellow.
	(a) How many ways can I pick 5 pencils from the 40?
	(b) How many ways can I pick 5 yellow pencils?
	(c) What is the probability that all of the pencils I pick are yellow?