Retake 7: Permutations and combinations MAT 123, Summer 2016

NAME:

1. (10 points) (a) Ten athletes compete in a marathon. Prizes are given for first, second, and third place. In how many different ways can the prizes be awarded?

(b) An urn contains six white balls and three green balls. How many ways are there to choose three green balls from the jar?

2.	(10 points)	(a) How many w	vays are there to	draw three cards	from a deck?	
	(b) How m	any ways are ther	re to draw three l	hearts?		
	(c) If you d	raw three cards fr	om a deck, what	is the probability	that you draw th	ree hearts?