Quiz 7: Permutations and combinations MAT 123, Summer 2016

NAME:

1. (10 points) (a) Seven children enter a science fair. Ribbons are given for first, second, and third place. In how many different ways can these ribbons be awarded?

(b) A jar contains four white balls and three red balls. How many ways are there to choose two red balls from the jar?

2.	(10 points)	(a)	How :	many	ways a	are the	ere to d	raw tw	vo cards	from a	deck?		
	(b) How re			una tha	ma ta	duare t		a?					
	(b) How m	any v	ways a	пе ше	ere to	araw t	wo ace	8:					
	(c) If you o	draw	two c	ards fi	rom a	deck,	what is	s the p	robabili	ty that	you dra	aw two	aces?