27:0	Analysis 2013/14 ${}_{i}C_{u}$ to take this quiz: how period period period There is no need to calculate an answer. Leave answers in factorial or "choose" form.
	1. My daughter's 5 th grade class has 30 students. How many ways can their teacher line them up if:
	a) They make a straight line 30! [1]
W	b) They make a straight line, but Emily, Megan and Audrey must be next to each other
	EMÄ XXXXX 31.28! [2] V
	c) They make a circle and Bob must be directly across from Rob (28) 14! [2] AKA 78!
	R I
	2. Wilfred has a 4 sided die with the letters A, B, C, and D on it. He rolls the die 12 times, and records the sequence of letters. a) How many different letter arrangements are possible? [1]
	AB S (1) (2) [2]
	b) How many of these arrangements include exactly two "A's"? [2] (12). 3" A A B B B
	c) How many ways can Wilfred get at least one "A"? [2]
	42-312
	3. There are 5 nominees for homecoming queen and 5 for homecoming king. How many different Homecoming courts (5 king/queen couples) can be formed? [2]

4. Carlos has a collection of 100 baseball cards, 20 of which are Houston Astros. [2 each]			
(3)	ulling 3 Astros cards: (20) ulling 3 random cards: (100)		
	ulling 1 Astros card: 20.80 = 160 ulling 2 random cards: (120)		
5. Bert and June are playing Dungeons and Dragons. If they roll 2 different 20-sided dice, (one green and one red) what is the probability of			
a) both red and green land on 17? $\frac{1}{400}$ [1] $\frac{1}{20} \cdot \frac{1}{20} = \frac{1}{400}$			
b) them adding to a number less than 5? [2	$12_{1}3_{1}4$ $\frac{2}{1,1}$ $\frac{3}{1,2}$ $\frac{4}{1,3}$ $\frac{6}{400}$ =		
c) them both being odd? $\boxed{\frac{1}{2}}$ $\boxed{\frac{1}{2}}$	3,1		
6. Pizza Mind (bad pun alert) has 6 meat toppings and 7 veggie toppings. How many different pizzas can be made with: a) Any amount of toppings (including zero)? [1]			
b) Three toppings total (3) [1] (3) total toppings three toppings			
c) Three meat toppings and two veggie toppings? $(\frac{6}{3})$	(3)·(2) [2]		
7. You are dealt 7 cards out of a standard deck of 52. a flush? (exactly 5 cards of the same suit, and two cards $4 \cdot 3 \cdot $	ds not of that suit). [3]		
P	ush: 4. (13). (39) ulling 7 cards: (53)		