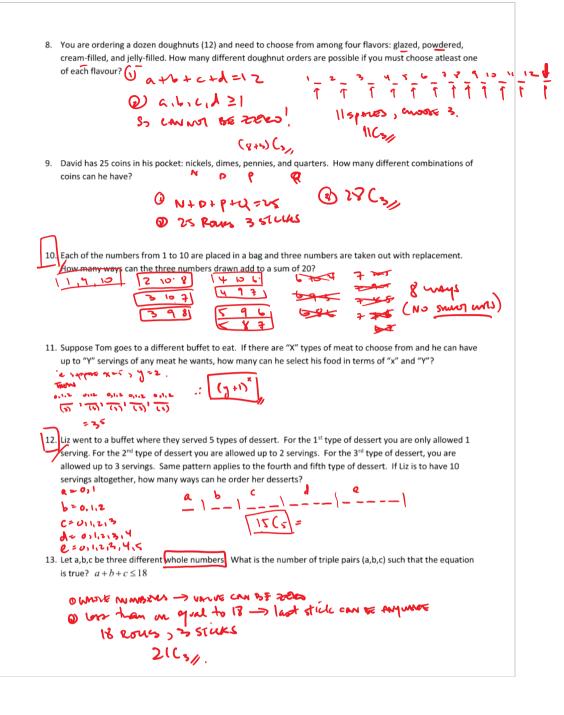
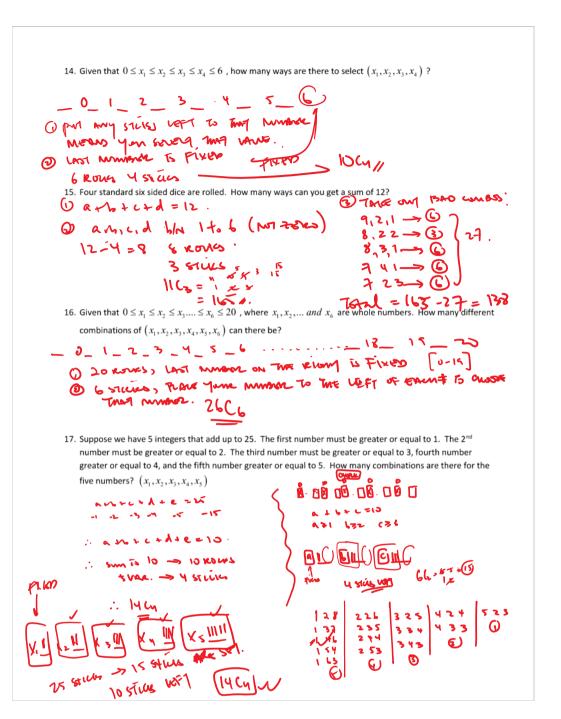
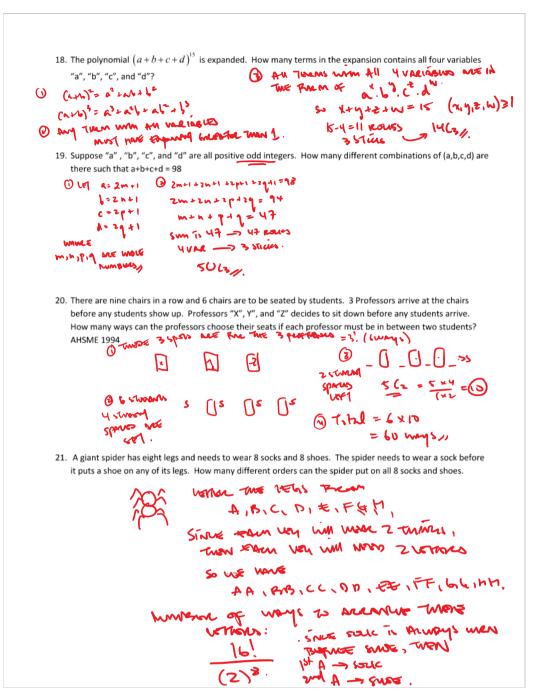
Name:	Date:	
	6.5 Counting Using the Sticks and Stones Method	
1.	If I have 10 identical stones, how many ways can I split them into 4 groups?	
	0_0_0_0_0_0_0_0_0_0_0, 9 spects in the timeson . One of a special into	
2.	If "a", "b", and "c" are whole numbers, how many combinations of (a,b,c) are there such that: a+b+c=9 () where we have $a+b+c=9$ () such that $a+b+c=9$ () such that $a+b+c=9$ () $a+$	
3.	How many ways can four whole numbers (a,b,c,d) add to 15? Som is 15 -> 15 kares Yure> 3 sticks R spece -> 18 Cs	#Tank
4.	Sandy wants to buy four donuts from Tim Hortons. She has 15 different flavours to choose from. How many different combinations of donuts can she buy her four donuts?	
_	(14+4)Cy=13Cy// PW A STULL VERY TO A WINDER (14+4)Cy=13Cy// PW A STULL VERY TO A WINDER MEANS YOU CHOOSE THAT FLAVOUR MEANS YOU CHOOSE THAT FLAVOUR MEANS YOU CAN 14 KOUS, WINDER ON	. (T) .e Ki
5.	Tom walks to a buffet to pick his food. There are 5 types of meat, chicken, beef, pork, lamb, and fish. He can have up to 6 servings of any meat he wants. How many can he select his food? I Flyco. G — B — B — D — F — 6 servings Solution 1. The can have up to 6 servings of any meat he wants. How many can he select his food? When the can have up to 6 servings of any meat he wants. How many can he select his food? The province of the can have up to 6 servings of any meat he wants. How many can he select his food? The province of the can have up to 6 servings of any meat he wants. How many can he select his food? The province of the can have up to 6 servings of any meat he wants. How many can he select his food? The province of the can have up to 6 servings of any meat he wants. How many can he select his food? The province of the can have up to 6 servings of any meat he wants. How many can he select his food? The province of the can have up to 6 servings of the can have up to 6 servings of any meat he wants. How many can he select his food? The province of the can have up to 6 servings of the can	BE LAC T
	Suppose "a", "b", "c", and "d" are natural numbers, how many different combinations of (a,b,c,d) are there such that $a+b+c+d=15$? SAME 45 Q3, \sim SMM \wedge \sim	
6.	YVA RIABUS -> 3 STUCKS	
6.	YVARIABLES > 3 STICKS	
7.		
	In a basketball game, in a team of 12 players, six of the players took 45 shots altogether. How many ways can the 45 shots be distributed to the 6 players?	
7.	In a basketball game, in a team of 12 players, six of the players took 45 shots altogether. How many ways can the 45 shots be distributed to the 6 players?	







When 7 fair standard 6-sided dice are thro	wn, the probability that		
the sum of the numbers on the top faces is	10 can be written as		
$\frac{n}{6^7}$,			
where n is a positive integer. What is n ? (A) 42 (B) 49 (C) 56 (D) 63	(E) 84		
(A) 42 (B) 49 (C) 56 (D) 65	(E) 64		