## **Chapter 4 Practice Test 1**

Name					
In 1	-3, find the slope, distance, and midpoint between the two given points. (3, 4) and (6, 10)				
1.	(3, 4) and (6, 10)				
	Slope =		Distance =	Midpoint =	
2.	(1, -5) and (-1, -3)	)			
	Slope =		Distance =	Midpoint =	
3.	(3, n) and (9, n + 6	6)			
	Slope =		Distance =	Midpoint =	
	4	. F	ind the equation of the line at goes through the poin	ine, in slope intercept form, nt (-3, 1) and has a slope of -5.	
	5	5. Fr th	ind the equation of the limetry of the limetry of the point of the poi	of the line, in slope intercept form, the point $(-4,4)$ and has a slope of $\frac{1}{2}$ .	
	6	b. F. th	ind the equation of the line that goes through the poin	ine, in slope intercept form, nt (2, 7) and (3, 10)	
	7	. F	ind the equation of the line the line the goes through the poin	ine, in slope intercept form, $t(2, -9)$ and $(3, -10)$ .	
		S. G y	five the equation of the li = $3x - 5$ and passes thro	ine in standard form that is parallel to bugh the point (1, 1).	
	9	9. G	five the equation of the li x + 3y = 9 and passes thr	ine in standard form that is parallel to rough the point (-1, 2).	
		0. G	five the equation of the lip $y = -2x - 5$ and passes t	ine in standard form that is perpendicula through the point (-2, 1).	
	1	1. G	Five the equation of the lip $3x - 6y = 2$ and passes	ine in standard form that is perpendicula through the point $(1, 3)$ .	

Calculate the following.

- 18. I have 5 shirts and 3 pairs of shorts. How many different outfits can I make assuming they all match since I would never go out in public looking poorly dressed?
  - 19. When dressing a model, I have to put the following items on it: shirt, socks, shoes, pants, and sunglasses. If I have 3 shirts, 4 pairs of socks, 2 shoes, 3 pants, and 3 types of sunglasses, how many different looks can I create for this model?

20. From 12 toppings, how many different pizzas can I make that have 2 toppings or less? Think on this one.

- 21. If there are 10 people in my class and I want to give 4 of them a bonus project, how many different groups could I have do the project?
- 22. If there are 8 kids on my little league basketball team, how many different sets of 5 kids could I start? I am not concerned about position on the court.
- 23. When I took my wife out to eat on our 10<sup>th</sup> Wedding Anniversary, I took her to a top notch restaurant called "Elizabeth's on 37<sup>th</sup>." On the menu, we had a choice of 6 main entrees, 8 side dishes, 5 desserts, and 4 different types of beverages. How many different types of meals could I have had that evening assuming that you only received one main entrée, one side dish, 1 dessert and 1 beverage. For \$150, you would think I could have gotten more food, wouldn't you?
- 24. Out of 110 Seniors, I have to pick a President, Vice-President, and Secretary. How many different ways could I form the Senior Cabinet?
- 25. For my parent's 50<sup>th</sup> Wedding Anniversary, I want to have a big party. Shhh, don't tell them. From the caterers 14 different desserts, I can choose 3. How many different options do I have?