Name: _____ Date: _____

ID: A

Algebra II Quiz 11.1

1. (15 points)

5 points each

Use your calculator to evaluate each expression: (Be careful when entering to the calculator)

- A). $\frac{7!-4!}{(6-3)!}$
- B). $\frac{6!}{3!(8-5)!}$
- C). $\frac{5!4!}{9!}$

2. (15 points) 5 points each

Compare. Write >, <, or =.

7. $_{8}P_{3} \square _{6}C_{3}$

- 8. ₁₂C₉] ₁₂C₇
- 9. ₉P₅ □ ₁₀P₅

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3.	(10	points)
J.	(10	pomis

Louise wears an outfit everyday that consists of one top (shirt, T-shirt, or blouse), one bottom (pants or skirt) and one scarf. Her wardrobe consists of a tan skirt, a pair of black pants, 2 T-shirts, one silk blouse, 1

	and one scarf. Her wardrobe consists of a tan skirt, a pair of black pants, 2 T-shirts, one silk blouse, 1 button-down shirt, and a set of 3 scarves.
	How many different outfits can Louise put together?
	Answer:
4.	(10 points)
	There are 7 singers competing at a talent show. In how many different ways can the singers appear? Answer:
5.	Joel owns 12 shirts and is selecting the ones he will wear to school next week. How many different ways car Joel choose a group of 5 shirts? (Note that he will not wear the same shirt more than once during the week.)
	Answer:
6.	(10 points)
	The door code to get into a top-secret lab is 6 digits. The first 3 digits of the code are each odd numbers. The

6.

last 3 digits of the code are each even. All of the digits can be used more than once.

How many possible codes are there to gain access to the lab?

Answer: _____

Name:	 	

7.	(10 points) In how many ways can a 3-digit number be formed using the 0 - 9, if each digit is used only one time?
	Answer:
0	
8.	(10 points) The prinicipal of the high school selects 4 Merit Scholars to attend the Key Club luncheon. If there are a total of 12 Merit Scholars at the school, in how many ways can the students be selected to attend the luncheon?
	Answer:

9. (10 points)

Holly wants to choose 5 different decorative floor tiles out of 8. She plans to place the 5 tiles in a row, end to end, on the wall.

In how many different ways can she arrange them from left to right?

Answer: _____