Name:	Per:	Date:	
Serafino - Precalculus S2			

Review

Set UP the problem only – no need to evaluate, but please label what your expressions represent.

- 1. How many different groups of 15 DVDs can I take out of my collection of 79?
- 2. You are going on vacation and in your suitcase you pack: 3 jeans, 5 shorts, 7 shirts and 2 pairs of shoes. How many different outfits are possible on your trip?
- 3. You're being a creep and trying to break into your friend's iPhone. You've seen him type it so you know he uses all the numbers down the middle column: 2, 5, 9, and 0, but you can't remember the order.
 - a. How many different passcodes are possible to try?
 - b. How many different passcode are possible if you know the passcode is an even number?
- 4. You're at Chipotle. Choices: white or brown rice; chicken, pork or beef; and a selection of 5 veggies.
 - a. How many different bowls can you make if you choose one of each?
 - b. How many different bowls can you make if you want rice, 2 different veggies, but aren't sure if you want one or two different kinds of meat?
 - c. How many different bowls can you make if you want rice, no meat, but AT LEAST 3 different veggies?
- 5. The Seven Dwarves are lining up to go to work.
 - a. How many different ways can they line up?
 - b. How many different ways can they line up if Sneezy, Happy & Doc insist on standing together?
- 6. We are rearranging the letters in the word COMBINATORICS
 - a. How many different ways can you rearrange the letters?
 - b. How many ways can you rearrange the letters if the word must have four consonants on both ends?

Name: Answer Cey Serafino • Precalculus 52	Per:	Date:	
Review			
Set UP the problem only – no need to evaluate, but please label what your expressions represent.			

How many different groups of 15 DVDs can I take out of my collection of 79?

2. You are going on vacation and in your suitcase you pack: 3 jeans, 5 shorts, 7 shirts and 2 pairs of shoes. How many different outfits are possible on your trip?

7.2.(3+5) or 7.2.8 or 3.7.2 + 5.7.2

3. You're being a creep and trying to break into your friend's iPhone. You've seen him type it so you know he uses all the numbers down the middle column: 2, 5, 9, and 0, but you can't remember the order.

a. How many different passcodes are possible to try? 4! or 4-3-2-1

b. How many different passcode are possible if you know the passcode is an even number?

3.2.1 24 Stort hone Even #

4. You're at Chipotle. Choices: white or brown rice; chicken, pork or beef; and a selection of 5 veggies.

a. How many different bowls can you make if you choose one of each?

2C1 . 3C1 . 5C1

How many different bowls can you make if you want rice, 2 different veggies, but aren't sure if you want one or two different kinds of meat?

2C1. 3C2. (5C1+5C2)

How many different bowls can you make if you want rice, no meat, but AT LEAST 3 different veggies?

2C1. (5C3+5C4+5C5)

5. The Seven Dwarves are lining up to go to work.

How many different ways can they line up? 7 7 0 7

How many different ways can they line up if Sneezy, Happy & Doc insist on standing together?

We are rearranging the letters in the word COMBINATORICS

How many different ways can you rearrange the letters?

··· wilus!

How many ways can you rearrange the letters if the word must have four consonants on both ends?

8.7.6.5.5.4.3.2.1.4.3.2.1. CCCVVVVCCCC