Quiz 7 (8 points total)

Math 017, Spring 2016

Name: Section:

Problem 1 A menu offers a choice of 3 salads, 8 main dishes, and 5 desserts. How many different meals consisting of one salad, one main dish and one dessert are possible?

(a) 16

(b) 100

(c) 120

(d) 140

Problem 2 How many ways can a president, vice president, and secretary be chosen from a club with 20 members if no person can occupy more than one position?

(a) $C(20, 3)$

(b) $P(20, 3)$

(c) 20^3

(d) 60

Problem 3 Which one of the following statements is **not** true?

(a) $P(7,2) = P(7,5)$

(b) $C(7,2) = C(7,5)$

(c) $0! = 1$

(d) $C(n,0) = 1$ for any integer n greater than or equal to 1.

Problem 4 Eight cards are marked with the numbers 1 through 8. Three cards are drawn. How many three-card hands contain a number less than three?

(a) 336

(b) 36

(c) 512

(d) 56

Feedback:

1. Any comments (on lectures, homework, quizzes, course, me, etc.)?