

Name:

ID #:

Section 1

Serial #:

Q1: A restaurant chef prepares a tossed salad containing, on average, 5 **vegetables** daily.

a. What is the probability that the salad contains *at least* 2 vegetables on a given day?

b. What is the probability that the salad contains *exactly* 4 vegetables on *any* 4 days?

c. What is the probability that the salad contains *exactly* 5 vegetables more than *once* in the coming 7 days?

- d. What is the probability that the salad contains *exactly* 5 vegetables for the *first* time in April will be on April 3?

Q2: A car rental agency at a local airport has available 6 Toyota, 5 Ford, and 2 Hyundai cars.

If the agency randomly selects 7 of these cars to chauffeur delegates from the airport to the downtown convention center, then find the following:

- a. The probability that 5 Toyotas are used.

- b. The expected number of Fords used?

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