Serial #\_\_\_\_\_

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

1) If events *E* and *F* are independent with P(E) = 0.45 and P(F) = 0.35, find  $P(E \cap F')$ .

2) Ten tickets numbered from 1 to 10 are placed in a hat. If two tickets are randomly drawn with replacement, find the probability the sum is 16.

3) If  $P(E|F) = \frac{2}{3}$ ,  $P(E \cup F) = \frac{7}{10}$ , and  $P(E \cap F) = \frac{2}{5}$ , determine if E and F are independent or dependent.