University of Texas at Austin

Problem Set # 11
Bernoulli. Binomial.

Provide your **complete solutions** for the following problems.

Problem 11.1. Based on the traveling salesman's experience, he makes a same on any visit with probability of 15%. We assume that the individual customer's decisions are independent.

If he makes 10 visits in a certain day, what is the chance that he makes at least five sales?

Problem 11.2. Expected frequency

Suppose you are going to roll a fair die 60 times and record the proportion of times that a 1 or a 2 is showing. The sampling distribution of the said proportion should be centered about which value?