Name:	Math 130 Day 11.5 Lecture Worksheet
Date:	The Normal Approximation to Binomial Random Variables

Ex 1: On-Time Flights According to American Airlines, their flights are on time 90% of the time. If 150 American Airlines' flights are randomly selected,

- a) What is the probability that exactly 130 flights are on time?
- b) What is the probability that at least 130 flights are on time?
- c) What is the probability that more than 130 flights are on time?
- d) What is the probability that fewer than 125 flights are on time?
- e) What is the probability that at most 125 flights are on time?
- f) What is the probability that between 125 and 135 flights, inclusive, are on time?
- g) What is the probability that between 125 and 135 flights, exclusive, are on time?
- h) What is the probability that between 125 and 135 flights, including 125 and not including 135, are on time?