

According to a recent census, 52.2% of New York residents are male. Suppose a group of 100 New York residents are selected at random.

- a) What is the mean and standard deviation of the number of male members of the group?
- b) Use the Normal approximation to find the probability that less than one half of the members of the group are male.
- c) Use the Normal approximation to find the probability that the number of male members of the group is between 45 and 55.