

1. You have twenty-question True/False quiz.
 - (a) What is the probability that you can guess the answers to all twenty True/False questions correctly?
 - (b) What is the probability that you can guess the answers to seventeen questions correctly?
 - (c) On average, how many questions could you expect to guess correctly?
 - (d) What is the average number of questions that you could expect to guess incorrectly?
 - (e) What is the standard deviation for the number of questions that you could guess correctly?
 - (f) What is the standard deviation for the number of questions that you could guess incorrectly?

2. You have a ten-question multiple choice quiz for which each question has five responses; you must choose the one correct or most appropriate response for each.
 - (a) What is the probability that you can guess the answer for seven out of ten questions correctly?
 - (b) What is the probability that you can guess the answers to all ten questions correctly?
 - (c) On average, how many questions could you expect to guess correctly?
 - (d) On average, how many questions could you expect to guess incorrectly?
 - (e) What is the standard deviation for the number of questions that you could guess correctly?
 - (f) What is the standard deviation for the number of questions that you could guess incorrectly?

3. You have a fifteen-question four-option per question multiple choice quiz.
 - (a) What is the probability that you can guess the answer for ten of the fifteen questions correctly?
 - (b) On average, how many questions could you expect to guess correctly?
 - (c) On average, how many questions could you expect to guess incorrectly?
 - (d) What is the standard deviation for the number of questions that you could guess correctly?
 - (e) What is the standard deviation for the number of questions that you could guess incorrectly?
 - (f) What is the probability that you guess the answer to five questions incorrectly?