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?