

5. A student take a multiple choice test.

There are 10 questions, each with 4 answers.

The students guesses at random on each question

Let X be the number of correct guesses.

find the following...

$$P(X=3)$$

$$P(X \geq 3)$$

If 7 correct is needed to pass,
would it be unusual* for the student to pass?

Explain.