

MTH 357/657

Quiz #4

1. An exam consists of 10 multiple choice questions and five answers to each question. If a student guesses randomly, what is the probability that they will get exactly 6 correct answers. You can leave your answer as a sum and product of fractions and you do not need to expand any binomial coefficients.

$$\binom{10}{6} \left(\frac{1}{5}\right)^6 \left(\frac{4}{5}\right)^4 = P(X=6)$$