

Problem 1 (5 points): Find the number of ways to draw a *one pair* poker hand, i.e., a five card hand with two cards of the same rank and three other cards of three other different ranks.

Be sure to explain how you obtained your answer.

Problem 2 (5 points): [GH 4.6.28] A meat processor has packed 50 packages of meat, 5 of which contain contaminated meat. If an inspector checks only 4 of the 50 packages, what is the probability that she will not check any of the contaminated packages?