MA 519: Homework 6

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Problem 6.1 (Handout 8, # 2)

Identify the parameters n and p for each of the following binomial distributions:

- (a) # boys in a family with 5 children;
- (b) # correct answers in a multiple choice test if each question has a 5 alternatives, there are 25 questions, and the student is making guesses at random.

Problem 6.2 (Handout 8, # 10)

A newsboy purchases papers at 20 ϕ and sells them for 35 ϕ . He cannot return unsold papers. If the daily demand for papers is modeled as a Binom(50, 0.5) random variable, what is the optimum number of papers the newsboy should purchase?

Solution.

Problem 6.3 (Handout 8, # 12)

Problem 6.4 (Handout 8, # 13)

Problem 6.5 (Handout 8, # 14)

Problem 6.6 (Handout 8, # 15)

Problem 6.7 (Handout 8, # 16)

Problem 6.8 (Handout 9, # 3)

Problem 6.9 (Handout 9, # 14)