M362K Homework Assignment #4

Please, provide your **complete solutions** to the following problems. Final answers only, even if correct will earn zero points for those problems.

Problem 4.1. (10 points) Provide an example of an experiment where the *binomial distribution* would be an appropriate model. Do **not** repeat any of the examples from class such as cointosses and the like.

Problem 4.2. (10 points) Solve Problem **2.1.4** from the textbook (p.91).

Problem 4.3. $(5 + 5 + 5 = 15$ points) Solve Problem **2.1.5** from the textbook (p.91).

Problem 4.4. $(10 + 5 = 15$ points) Solve Problem **2.1.10** from the textbook (p.91).