**Practice Question of probability and statistics**

Chapter #2 (Neil a Weiss 9th edition)

Q# 2.18 to 2.29

Q# 2.52 to 2.64

Q# 2.66 to 2.67

Q# 2.69, 2.72, 2.81, 2.81, 2.85, 2.86, 2.101, 2.109

Chapter 1 (Walpole 9th edition)

Q# 1.1 to 1.31

Chapter 2 (Walpole 9th edition)

Q# 2.1, 2.3, 2.4, 2.5, 2.9, 2.10, 2.14, 2.15

Q# 2.20 to 2.48

Q# 2.49, 2.51, 2.52, 2.53 to 2.72

Q# 2.49, 2.51, 2.52, 2.53 to 2.72

Q# 2.73 to 2.90

Q# 2.95, 2.96, 2.98,2.99 to 2.102 2.74, 2.75, 2.76, 2.77, 2.78, 2.79, 2.80, 2.81, 2.82, 2.83, 2.85, 2.86, 2.89

Chapter 3:

3.1: Concept of a Random Variable

Definition 3.1

Example 3.1

Example 3.2

3.2: Discrete Probability Distributions

Definition 3.4

Example 3.8

Example 3.9

Definition 3.5

Example 3.10

3.3: Continuous Probability Distributions

Definition 3.6

Example 3.11

Definition 3.7

Example 3.12

3.4: Joint Probability Distributions

Definition 3.8

Definition 3.9

Example 3.15

Definition 3.10

Example 3.17

Example 3.14

Example 3.16

Example 3.18

Example 3.19

Definition 3.12

Example 3.21

Exercise Questions

3.5, 3.6, 3.9, 3.13, 3.18, 3.21, 3.26, 3.28, 3.37, 3.38, 3.40 - 3.44, 3.49, 3.50, 3.54, 3.55

Review Exercise

**All questions related to the topics mentioned above.**

Chapter 4:

4.1: Mean of a Random Variable

Definition 4.1, Example 4.1, Example 4.3, Theorem 4.1, Example 4.4, Example 4.5, Definition 4.2, Example 4.6, Example 4.7, Theorem 4.2, Example 4.9, Example 4.10, Theorem 4.4, Example 4.13, Example 4.14

Exercise

4.1-4.4, 4.6, 4.10-4.14,4.32, 4.33-4.36, 4.49, 4.50

Review Exercise

**All questions related to the topics mentioned above.**

Chapter 5:

5.2: Binomial and Multinomial Distributions

5.3: Hypergeometric Distribution

5.5: Poisson distribution and the Poisson Process

* **All the examples in the book related to above topics are included.**
* **Questions discussed in class and questions from Exercise and review exercise in the book related to above topics are included.**

Chapter 6:

6.1: Continuous Uniform Distribution

Example 6.1

6.2: Normal Distribution

Example 6.2, Example 6.3, Example 6.4, Example 6.6, Example 6.7, Example 6.8

Exercise

6.3-6.9