

Review Questions 2 Combinatorics

Read Doerr and Levasseur, Ch 2.1, 2.2, 2.3, 2.4 and Hammack, Ch 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7 then answer the review questions

Doerr and Levasseur

2.1 / 3, 5, 7, 9, 11, 13, 15

2.2 / 1, 5, 7

2.3 / 1

2.4 / 1, 3, 7, 9, 11

Hammack

3.1 – 3.7 / odd numbered problems

Lab 2: Combinatorics

- What is the $n!$, where $n = 27$?
- What is $(n!) / (k! * (n-k)!)$, where $n = 8$, $k = 5$?
- Consider the set $A = \{a, b, c, d\}$. List the permutations that have 2 letters?
- A cashier only has pennies, nickels, dimes, quarters, and fifty-cent pieces. How many combinations of coins would make up 99¢