Midterm Training Form 1

Date	What did you study?	How productive did you feel on a scale of 1 (not at all unproductive) to 10 (maximum productive!)
Example:	Example:	Example:
1/1/2022	 Went over mistakes on HW for probability properties Added formulas to draft formula sheet for summary statistics and probability. 	10!!!
3/24/23	 Studied types of data Population vs sample and their uses Categorical vs numerical data Continuous vs discrete 	5
3/24/23	 Studied different ways to compute the average Mean, median mode Interquartile range (IQR) along with Q1, Q2, lowest and maximum values I learned mild vs extreme outliers (1.5IQR vs 3IQR) 	10
3/25/23	 Today, I reviewed Venn diagrams and set operations I tried to memorize the 3 probability axioms: non-negativity, unitarity, and sigma additivity. I practiced finding parts of a set using complements, intersections, and unions. 	5
3/25/23	 I reviewed conditional probability. It was a little challenging to grasp the concept when learning about the law of total probability (the tree diagram), but in the end, I understood the concept. I also learned Bayes' Theorem and used it to solve some conditional probability problems. The equation is more convenient over using a tree. 	7
3/25/23	 I quickly reviewed independent events. Events are independent iff P(A^B)=P(A)P(B) is true. Using that condition, I could find P(A B) and 	7

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	P(B A) using the equations provided which are P(A) = P(A^B)/P(B) and P(B) = P(A^B)/P(A)	
3/29/23	 I tried to memorize combinations and permutations. I categorized them into sections depending on two questions: Does the order matter? Is replacement (repetition allowed)? When order doesn't matter, it's a combination. If order does matter, it is a permutation. I also learned the addition rule and the subtraction rule 	10
3/29/23	 I practiced the process of finding the pmf and cdf. I read the textbook for reference with finding P(X<=x) and other equations similar to that like P(a<=X<=b) This will be handy for solving binomial distribution problems 	10
3/29/23	 I studied the expected value and variance of a random variable. I also remembered that standard deviation is just the square root of the variance. I also reviewed the linearity properties of the expected value and variance of an rv. 	10
3/31/23	Finally, I reviewed binomial rvs, negative binomial rvs, and Poisson rvs. Since this information was the freshest in my mind, I didn't study this much, but I still put it into my cheat sheet.	4

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