

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: 1/1/2022 | Example: <ul style="list-style-type: none"> Went over mistakes on HW for probability properties Added formulas to draft formula sheet for summary statistics and probability. | Example: 10!!! |
| 3/24/23 | <ul style="list-style-type: none"> Studied types of data Population vs sample and their uses Categorical vs numerical data Continuous vs discrete | 5 |
| 3/24/23 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> I quickly reviewed independent events. Events are independent iff $P(A \cap B) = P(A)P(B)$ is true. Using that condition, I could find $P(A B)$ and | 7 |

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