
BY THE NUMBERS

Discussion 01

DATA C8: FOUNDATIONS OF DATA SCIENCE

UC BERKELEY, FALL 2025

Welcome to your first Data 8 lab! Data Science is about making sense of real numbers in the world, and this worksheet will help introduce you to the type of thinking you will learn in this class.

Answer the following questions to the best of your ability. Complete the worksheet with your table group. Be ready to discuss your reasoning behind each of your answers!

1. Class Sizes

Which of the following numbers are closest to the average size of all undergraduate Berkeley classes in the 2024-2025 academic year?

30 40 50 60 70 80 90

2. Popular Degrees

In the 2023-2024 academic year, close to half of all undergraduate degrees at Berkeley were awarded to students in the 10 largest major programs. The top five (in decreasing order of number of degrees awarded) are CDSS Computer Science, CDSS Data Science, Economics, MCB, and EECS. What are the next five?

3. Healthy Living

“Life expectancy at birth” (LEB) measures roughly how many years a newborn baby is expected to live, and is a commonly used metric to quantify the health of a population. What two states would you expect to have the highest LEBs among all states in the US?

4. Worldwide

Picking from the list of numbers below, fill in the numbers that you expect to be the closest to the 2022 LEB of the United States as well as the world.

69 71 73 75 77 79

United States: _____ World: _____