
Unit 2: *Summing It Up*

Below are prompts to help you discuss some key ideas from Unit 2. Pick **three** to write about for your *Summing It Up* assignment.

1. **Math, Who and Why:** In Chapter 1 of *Mathematics for Human Flourishing*, Francis Su challenges our ideas of who does mathematics and why to do mathematics. How does he critique our society's answers to these questions, and what answers does he propose instead?
2. **Quest for Meaning:** In Chapter 3 of *Mathematics for Human Flourishing*, Francis Su asserts that an essential aspect of problem-solving is grappling with the meaning of the problem, and he connects this to a basic human desire for meaning. He goes on to list four virtues that are strengthened when we search for meaning. Describe each of these four virtues.
3. **Expected Value:** Explain the concept of expected value from probability theory, and give two examples of how expected value can be used in daily life.
4. **Conditional Probability:** For two events A and B, explain the difference between the probability of A given B and the probability of B given A. Use a real-life example to illustrate the difference and to explain why the understanding the difference is important.
5. **Using Math:** Describe three ways math is used in society that you learned about from your classmates' presentations (not your own project). What kinds of math are used? How does this benefit society?
6. **Propose a Key Idea:** If an idea from Unit 1 struck you that is not on this list, you may propose your idea to me (one week before the portfolio is due), and I will let you know if it is suitable as a key idea for Unit 1.