

Quiz 4

Math 105

Summer 2020

You have 30 minutes to complete this quiz (**this includes the time it takes to scan and upload it**). You may not use a calculator, your notes, the textbook, or any other resources. Write your solutions on a separate sheet of paper, and when you're finished, first check your work if there is time remaining, then scan the quiz and upload it to Canvas. If you have a question, don't hesitate to ask — I just may not be able to answer it.

1. (8 points) You roll an eight-sided die. Write the sample space S and the events corresponding to:

- Rolling a 7.
- Rolling an even number.
- Rolling between a 3 and 6, inclusive.

2. (8 points) Find the probability and odds of each of the events in the previous problem.

3. (8 points) Now suppose you roll both an eight-sided die and a four-sided die at the same time. What is the probability that you roll at least one 3 between the two dice? Show all your work.