

Math 3160 Quiz 3+4 September 17, 2021

(1) If we flip a fair coin two times, what is the probability that we have two heads, given that we have at least one heads? Ans: $1/3$ see Example 4.3

(2) If we flip a fair coin several times, what is the probability that the second heads appears on the 4th flip? Ans: $3/16$ see Exercise 3.8

(3) Suppose we roll two standard fair 6-sided dice. What is the probability that the sum is at least 8 given that we rolled at least one 5? Ans: $7/11$ see Exercise 4.2