

Answer the questions in the spaces provided on the question sheets. If you run out of room for an answer, continue on a separate sheet of paper.

Conditional probability

1. Suppose that we flip a coin three times, and all eight possibilities are equally likely. Moreover, suppose we know that the event F , that the first flip comes up tails, occurs. Given this information, what is the probability of the event E , that an odd number of tails appears?
2. Are events E and F independent?
3. Exercise 9.3.1 from zyBooks
4. Exercise 9.3.6 from zyBooks