

Quiz 5
Show all your work

Name: _____
Number: _____
Signature: _____
Score: ____/10

Problem 1: Answer each question to two decimal place accuracy when appropriate. If an exact answer is possible expressed as a fraction, you may leave your answer as a fraction.

a. Suppose the probability of rain tomorrow is 70%. What would be the probability of no rain tomorrow?

b. Dad constructed a spinner with five equal sectors, each labelled with a different snack: Aero, HiChew, Mars Bar, Chips, Twix. Assume that the pointer never lies on a border, what is the probability that Samlette does not get Aero after two spins?

c. When Katharina rolls two cubic dice (D6), what is the probability of getting a total of less than 5?

Score: ____/3

Problem 2: Hamlet and Samlette found three fair coins to flip. answer the following questions.

a. Draw a probability tree for flipping three coins.

b. Find the probability of getting at least two Heads from flipping three coins.

Score: ____/3

Problem 3: Assume that 12% of international visitors arriving at the Vancouver International Airport are sick with the latest variant of Covid. Suppose a Covid test correctly identifies a visitor sick with Covid 93% of the time. Also assume that the test falsely identifies a healthy visitor as sick with Covid 5% of the time. If an international visitor tests positive, what is the probability that the visitor is actually NOT sick with Covid?

Draw a probability tree as part of your steps.

Score: ____/4