

Mathematics 1550H – Probability I: Introduction to Probability

TRENT UNIVERSITY, Summer 2023 (S62)

Quiz #5

Shuffling the Deck

Due just before midnight on Thursday, 6 July.*

Instructions: Do the following problem. Please show all your work.

1. You shuffle a standard deck thoroughly to get a random arrangement of the 52 cards. Is it likely that this arrangement has been achieved by someone shuffling a deck before? Explain why or why not. [5]

* You should submit your solutions via Blackboard's Assignments module, preferably as a single pdf. If this fails, you may submit your work to the instructor on paper or by email to sbilaniuk@trentu.ca.