

# DTP-Math-Circle: Session 2—Probability

Sept 16 2022

## 3 Making excuses safely

Four employees reach office very late after a holiday trip. To excuse their lateness, they make up an excuse on the spur of the moment: They tell the boss that one tire of their car burst on their way back.

Their boss takes each to a different room, and simply asks: "Which tire?"  
What is the chance of them getting away with this excuse?

If instead of a car, they had said they were in an autorickshaw and one tire burst, how would the probability change?