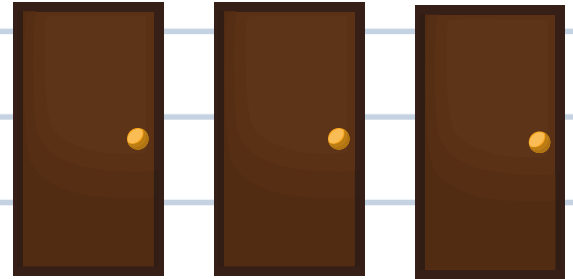# Brain Teaser #20
The Monty Hall Problem

A game show contest has **3** closed doors. Hidden behind one door is a car. The other doors hide goats. You may choose one door. What is the probability of winning the car?

1/3

Instead of opening the door you chose, the game show host opens one of the others to reveal a goat. You can then stay with your door or change doors. What is the winning strategy?

There is a **2/3** probability of winning if you switch, and a 1/3 probability if you stay. So, switch doors!