

13.1 Probability

Rolling Dice (one only)

6 faces ... 1, 2, 3, 4, 5, 6

$$P(1) = \frac{1}{6} \quad (\text{only one } 1)$$

↑
Probability

$$P_{\text{of}}^{\text{of}}(\text{even}) = \frac{3}{6} = \frac{1}{2}$$

2, 4, 6

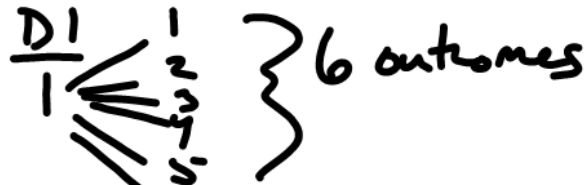
$$P(\# > 1) = \frac{5}{6}$$

2, 3, 4, 5, 6

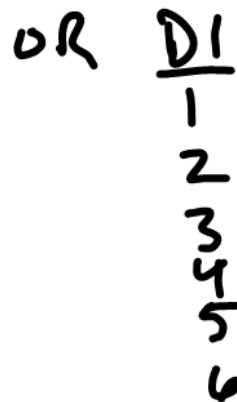
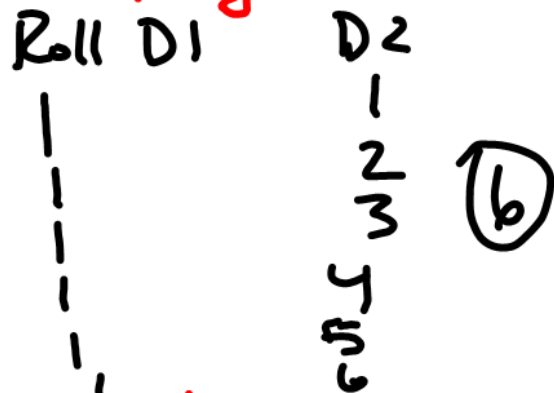
Two Dice

$$\begin{array}{cc} D1 & D2 \\ \underline{6} \cdot \underline{6} = 36 \end{array}$$

How many outcomes?



Rolling a 1



12 outcomes
for rolling 1

$$\frac{12}{36} = \frac{4}{12} = \frac{1}{3}$$

Double

5 or 6?

→ 2 outcomes

$$\frac{2}{36} = \frac{1}{18}$$

Any double?

11, 22, 33, 44, 55, 66

$$\frac{6}{36} = \frac{1}{6}$$