Lecture 4: probability 1

Tuesday, April 7, 2026 3:05 PM

2 $\frac{1}{2} = 0.5$ Toy.

S = 2 $\frac{K}{S} = 0.5$

Group A	Group B
H/T	H/T
H	T
T	T
T	H

HHH	HTH	HTT
TTT	THT	THH
TTH	HHT	8

1

2^3 k^n $\frac{1}{8}$

S → 8 $\frac{1}{8}$

Dice w/ Six Sides

1 time, Probability of getting 5

$$P(5) = \frac{1}{6} = \frac{K}{S}$$

$$P(\text{Even}) = \frac{3}{6} = 0.5$$

1	2
3	4
5	6
3	3

Properties:

1. $P(S) = 1$

2. $0 \leq P(A) \leq 1$

3. $P(\bar{A}) = 1 - P(A)$ / Complement Rule

4. $P(\text{at least } 1) = 1 - P(\text{None})$

$= 1 - \frac{48}{52}$