

Chapter 1: Probability Models In Electrical and Computer Engineering

1.1 (a) Sample Space
 $\mathcal{A}_1 = \{H, T\}$ $\mathcal{A}_2 = \{1, 2, 3, 4, 5, 6\}$ $\mathcal{A}_3 = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9\}$

(b) $P_H = P_T = \frac{1}{2}$ if both sides equally likely (fair coin)
 $P_1 = P_2 = P_3 = P_4 = P_5 = P_6 = \frac{1}{6}$ if die fair
 $P_0 = P_1 = P_2 = P_3 = P_4 = P_5 = P_6 = P_7 = P_8 = P_9 = \frac{1}{10}$ both identical

1.2 (a) $\mathcal{A} = \{HH, HT, TH, TT\}$ $\mathcal{A}_{ball} = \{0, 1, 2, 3\}$
 4 equiprobable outcomes 4 identical balls
 or 2 draws from urn with 2 identical balls

(b)

		face 1					
		1	2	3	4	5	6
face 2	1	(1,1)	(1,2)	(1,3)	(1,4)	(1,5)	(1,6)
	2	(2,1)	(2,2)	(2,3)	(2,4)	(2,5)	(2,6)
	3	(3,1)	(3,2)	(3,3)	(3,4)	(3,5)	(3,6)
	4	(4,1)	(4,2)	(4,3)	(4,4)	(4,5)	(4,6)
	5	(5,1)	(5,2)	(5,3)	(5,4)	(5,5)	(5,6)
	6	(6,1)	(6,2)	(6,3)	(6,4)	(6,5)	(6,6)

pair of faces results in 36 equiprobable outcomes
 \Rightarrow urn with 36 identical balls
 or 2 draws from urn with 6 balls

(c) with replacement:
 Same as (b) with 52x52 equiprobable pairs
 \Rightarrow urn with 52x52 = 2704 identical balls
 or 2 draws from urn with 52 balls

without replacement:
 52x51 equiprobable pairs
 \Rightarrow urn with 52x51 = 2652 identical balls
 or 2 draws from urn with 52 identical balls without replacement

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Yicheng Fang



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