02-StatsReview

Thursday, January 23, 2020 8:39 AM

Experiment : roll two dice and sum

Possible outcomes : integers from 2-12

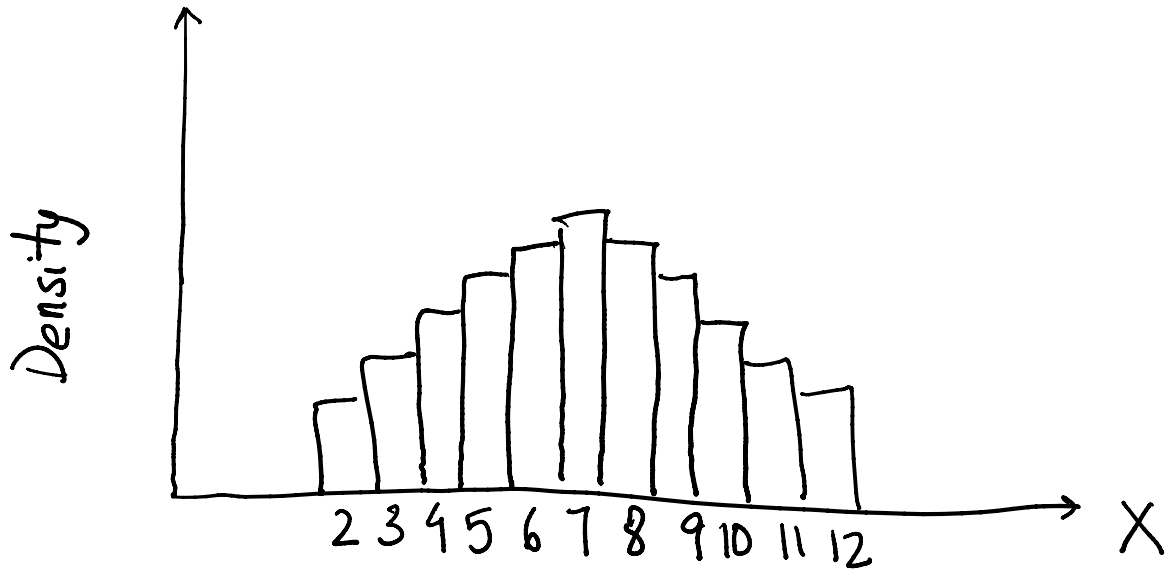
$6 \times 6 = 36$ possible outcomes

X	P(X)	X.P(X)	E(X)	X-E(X)	$[X-E(X)]^2$	$P.[X-E(X)]^2$
2	1/36	2/36	7	-5	25	0.69
3	2/36	6/36	7	-4	16	0.89
4	3/36	12/36	7	-3	9	0.75
5	4/36	20/36	7	-2	4	0.44
6	5/36	30/36	:	-1	1	0.14
7	6/36	42/36	·	0	0	0
8	5/36	40/36	:	1	1	0.14
9	4/36	28/36	·	2	4	0.44
10	3/36	30/36	·	3	9	0.75
11	2/36	22/36	·	4	16	0.89
12	1/36	12/36	·	5	25	0.69

$\text{Var}(X) = 5.83$

$\text{Sd}(X) = \sqrt{5.83}$

P(X)


Density
2 3 4 5 6 7 8 9 10 11 12
X