

NCERT Exemplar Solutions by Dev Anoop (Bathinda)
Probability, Ex 13.3

(38) outcomes $= 2^3$
 $= 8$

H H H	T H H
H H T	T H T
H T H	T T H
H T T	T T T

$P(\text{loses entry fee}) = \frac{1}{8}$

$P(\text{gets double entry fee}) = \frac{1}{8}$

$P(\text{gets entry fee}) = \frac{6}{8} = \frac{3}{4}$

(39)

0	0	1	0	1	0	1	0	6	0	6	0
0	1	1	1	1	1	1	1	6	1	6	1
0	1	1	1	1	1	1	1	6	1	6	1
0	1	1	1	1	1	1	1	6	1	6	1
0	6	1	6	1	6	1	6	6	6	6	6
0	6	1	6	1	6	1	6	6	6	6	6

no. of different possible scores = 6
(0, 1, 2, 6, 7, 12)

$P(7) = \frac{12}{36} = \frac{1}{3}$

(1, 6), (1, 6), (1, 6), (1, 6), (1, 6), (1, 6), (6, 1), (6, 1), (6, 1),
(6, 1), (6, 1), (6, 1)