

## Craps Game

Name:

Place bets are bets that a given sum will be rolled before a sum of seven is rolled. Here are the payouts:

Bet	Probability	Odds	Payout	Expected Value
Place 4/10	$\frac{3}{3+6}$	6:3	9:5	$\frac{3}{9}(\frac{9}{5}) + \frac{6}{9}(-1) = -0.07$
Place 5/9	$\frac{4}{4+6}$	6:4	7:5	$\frac{4}{10}(\frac{7}{5}) + \frac{6}{10}(-1) = -0.04$
Place 6/8	$\frac{5}{5+6}$	6:5	7:6	$\frac{5}{11}(\frac{7}{6}) + \frac{6}{11}(-1) = -0.02$

Keep track of your bets:

Type of Bet	Money on Bet	Payout	Win/Lose	Earnings/Losses
Examples: Place 6	\$6	7:6	Won	\$7
Place 4	\$5	9:5	Lose	-\$5
Place 5	\$10	7:5	Won	\$14

A pass bet is a bet that wins if the first roll is 7 or 11. It loses if the first roll is a 2, 3, or 12. It wins if any other first roll (4,5,6,8,9,10) comes up again before a seven is rolled.

Here is the pass the pass bet payout:

Bet	Probability	Odss	Payout	Exp. Value
Pass	244/495	251:244	1:1	-0.01

Keep track of your bets:

Type of Bet	Money on Bet	Payout	Win/Lose	Earnings/Losses
Pass bet	\$10	1:1	Won	\$10
Pass bet	\$5	1:1	LOST	-\$5