

Sums for rolling 2 dice and possible outcomes

| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| (1,1) | (1,2) | (1,3) | (1,4) | (1,5) | (1,6) | (2,6) | (3,6) | (4,6) | (5,6) | (6,6) |
| | (2,1) | (3,1) | (4,1) | (5,1) | (6,1) | (6,2) | (6,3) | (6,4) | (6,5) | |
| | | (2,2) | (2,3) | (2,4) | (2,5) | (3,5) | (4,5) | (5,5) | | |
| | | | (3,2) | (4,2) | (5,2) | (5,3) | (5,4) | | | |
| | | | | (3,3) | (3,4) | (4,4) | | | | |
| | | | | | (4,3) | | | | | |

The possible outcomes for rolling 3-dice – organized according to the sum of the 3 dice.

| 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| (1,1,1) | (1,1,2) | (1,1,3) | (1,1,4) | (1,1,5) | (1,1,6) | (1,2,6) | (1,5,4) | (1,5,5) | (1,5,6) | (2,5,6) | (2,6,6) | (5,5,5) | (4,6,6) | (5,6,6) | (6,6,6) |
| | (1,2,1) | (1,3,1) | (1,4,1) | (1,5,1) | (1,6,1) | (1,6,2) | (1,4,5) | (5,1,5) | (1,6,5) | (2,6,5) | (6,2,6) | (6,6,3) | (6,4,6) | (6,5,6) | |
| | (2,1,1) | (3,1,1) | (4,1,1) | (5,1,1) | (6,1,1) | (6,1,2) | (4,1,5) | (5,5,1) | (5,1,6) | (5,2,6) | (6,6,2) | (6,3,6) | (6,6,4) | (6,6,5) | |
| | | (1,2,2) | (1,2,3) | (1,2,4) | (2,2,4) | (6,2,1) | (4,5,1) | (2,3,6) | (5,6,1) | (5,6,2) | (4,4,6) | (3,6,6) | (5,5,6) | | |
| | | (2,1,2) | (1,3,2) | (1,4,2) | (2,4,2) | (2,1,6) | (5,1,4) | (2,6,3) | (6,5,1) | (6,2,5) | (4,6,4) | (4,5,6) | (5,6,5) | | |
| | | (2,2,1) | (2,1,3) | (2,1,4) | (4,2,2) | (2,6,1) | (5,4,1) | (3,2,6) | (6,1,5) | (6,5,2) | (6,4,4) | (4,6,5) | (6,5,5) | | |
| | | | (2,3,1) | (2,4,1) | (1,2,5) | (2,2,5) | (1,3,6) | (3,6,2) | (2,4,6) | (3,4,6) | (5,5,4) | (5,4,6) | | | |
| | | | (3,2,1) | (4,1,2) | (1,5,2) | (2,5,2) | (1,6,3) | (6,2,3) | (2,6,4) | (3,6,4) | (5,4,5) | (5,6,4) | | | |
| | | | (3,1,2) | (4,2,1) | (2,1,5) | (5,2,2) | (3,1,6) | (6,3,2) | (4,2,6) | (4,3,6) | (4,5,5) | (6,4,5) | | | |
| | | | (2,2,2) | (2,2,3) | (2,5,1) | (1,3,5) | (3,6,1) | (2,5,4) | (4,6,2) | (4,6,3) | (3,5,6) | (6,5,4) | | | |
| | | | | (2,3,2) | (5,2,1) | (1,5,3) | (6,1,3) | (2,4,5) | (6,2,4) | (6,3,4) | (3,6,5) | | | | |
| | | | | (3,2,2) | (5,2,1) | (3,1,5) | (6,3,1) | (4,2,5) | (6,4,2) | (6,4,3) | (5,3,6) | | | | |
| | | | | (1,3,3) | (1,3,4) | (3,5,1) | (2,3,5) | (4,5,2) | (3,3,6) | (4,4,5) | (5,6,3) | | | | |
| | | | | (3,1,3) | (1,4,3) | (5,1,3) | (2,5,3) | (5,2,4) | (3,6,3) | (4,5,4) | (6,3,5) | | | | |
| | | | | (3,3,1) | (4,3,1) | (5,3,1) | (3,2,5) | (5,4,2) | (6,3,3) | (5,4,4) | (6,5,3) | | | | |
| | | | | | (3,1,4) | (1,4,4) | (3,5,2) | (1,4,6) | (4,4,4) | (5,5,3) | | | | | |
| | | | | | (4,1,3) | (4,1,4) | (5,2,3) | (1,6,4) | (4,5,3) | (5,3,5) | | | | | |
| | | | | | (3,4,1) | (4,4,1) | (5,3,2) | (4,1,6) | (4,3,5) | (3,5,5) | | | | | |
| | | | | | (3,3,2) | (3,3,3) | (3,3,4) | (4,6,1) | (3,4,5) | (1,6,6) | | | | | |
| | | | | | (3,2,3) | (2,3,4) | (3,4,3) | (6,1,4) | (3,5,4) | (6,1,6) | | | | | |
| | | | | | (2,3,3) | (2,4,3) | (4,3,3) | (6,4,1) | (5,3,4) | (6,6,1) | | | | | |
| | | | | | | (3,4,2) | (2,4,4) | (3,4,4) | (5,4,3) | | | | | | |
| | | | | | | (3,2,4) | (4,2,4) | (4,3,4) | (2,5,5) | | | | | | |
| | | | | | | (4,2,3) | (4,4,2) | (4,4,3) | (5,2,5) | | | | | | |
| | | | | | | (4,3,2) | (2,2,6) | (3,3,5) | (5,5,2) | | | | | | |
| | | | | | | | (2,6,2) | (3,5,3) | | | | | | | |
| | | | | | | | (6,2,2) | (5,3,3) | | | | | | | |

Roulette is a game in which a large wheel is spun, the wheel has 38 numbers, 18 red numbers, 18 black numbers and two green numbers 0 and 00. A small ball spins with the wheel, as the wheels slow down and stops the ball will land on one of the 38 numbers, the number the ball lands on is the winner.

