Square Off

Square Two Dice Chart

- Each team tosses a die.
- Higher number goes first.
- Each team chooses a color token.

How to Play

1. *Toss 2 dice. Find the sum. Square the sum (multiply the sum by itself—for example, 7 7).*
2. *Place a token on the square number.*
3. *Teams attempt to place tokens to form a square. Squares can be 2-by-2, 3-by-3, 4-by-4, and so on. Orientation of the square can be on the diagonal.*
4. *The first team to place tokens forming three squares wins.*

36	121	9	25	81	16	4
49	64	144	100	36	25	81
25	49	36	64	4	81	64
64	36	81	49	121	16	49
100	25	4	16	36	49	144
16	81	121	49	100	9	64
9	36	64	144	49	25	100

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Cross Over Square the Die Chart

- Each team tosses a die.
- Higher number goes first.
- Each team chooses a color token.

How to Play

1. *Toss a die. Square the number (multiply the number by itself—for example, 3 3).*
2. *Place a token on that square number anywhere on the chart. With each turn, place tokens so they form a continuous path—zigzagging horizontally, diagonally, or vertically—from one side of the chart to the other.*
3. *If a number is taken, lose a turn.*
4. *First team to "cross over" wins.*

36	1	16	25	9	4	16
25	9	36			16	
1	16	4		25		4
4	25			36	1	25
		1	4	16	25	9
16	4	25	36	1	9	36
25	9	16	1	36	4	25

36	1	16	25	9	4	16
25	9	36	1	4	16	1
1	16	4	9	25	36	4
4	25	9	16	36	1	25
9	36	1	4	16	25	9
16	4	25	36	1	9	36
25	9	16	1	36	4	25

One-Die Square Root Tic-Tac-Toe

- Each team tosses a die.
- Higher number goes first.
- Each team chooses a color token.

How to Play

1. *Toss a die. The tossed number is the solution to which square root expression? Find it on the chart.*
2. *Place a token on that expression.*
3. *If the expression is taken, lose a turn.*
4. *The first team to get three tokens in a row wins the game.*
5. *Play 3 games. The team winning 2 out of 3 games wins.*

$\sqrt{36}$	$\sqrt{25}$	$\sqrt{16}$
$\sqrt{4}$	$\sqrt{9}$	$\sqrt{4}$
$\sqrt{25}$	$\sqrt{16}$	$\sqrt{1}$

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Die × Die + or –1 Prime Number

Tic-Tac-Toe

- Each team tosses a die.
- Higher number goes first.
- Each team chooses a color token.

How to Play

1. Toss 2 dice. Find the product. Either add 1 to the product or subtract 1 from the product.

2. If that number is a prime number, place a token on the number.

3. If the number is not prime, or the prime number has a token on it, lose a turn.

4. The first team to get three tokens in a row wins the game.

5. Play 3 games. The team winning 2 out of 3 games wins.

7	13	29
2	11	5
3	23	19

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