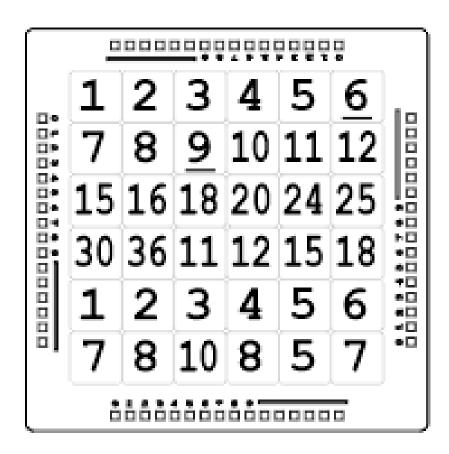
MATH TAC TOE

Mathematical Dice Game

(Updated March 10, 2020)

Math Tac Toe is a strategic dice game where two to four players attempt to control sufficient territory using mathematical equations. Players take turns flipping tiles in a 6x6 grid using dice rolls. The arrows on the flip side will point towards the player. Aligning enough adjacent arrows towards a player causes the player to score points.



LASERCUT COMPONENTS:

- 6x6 game board for up to four players with ...
- 4 integrated scoring tracks and score markers
- 36 numbered tiles
- Two dice.

SETUP: Place all the tiles face up in the grid randomly. Reset the score board markers to 0.

GAME PLAY:

On each turn, a player will...

- Roll both dice
- Determine the two to four math equations using both numbers (see chart below)
- Flip any tile that matches that matches the answer to one of the mathematical equations based on the two numbers rolled.
- Align the arrow to point to the player
- Look for sufficient adjacent arrow alignments to score one point (see patterns below)
- After scoring, flip the tiles back to their numbered faces.

NOTES:

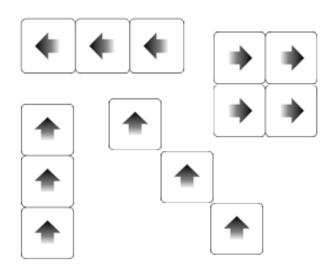
• When a die roll has **no matching answer**, call out your equation then choose a random opponent's arrow and flip it over to reveal its number. Should the number match your answer, flip it back and point the arrow to you. Score if possible.

STRATEGIES:

- Don't always flip a tile to point to yourself. Thwart your opponent with a potential block.
- Try to remember where numbers are in case you get a chance to flip back an arrow (when there is no match).

Winning Patterns

Three arrows in a straight line in any direction and a 2x2 square are the winning patterns to score one point:



Mathematical Die Rolls

Dice Rolls	Equations	Dice Rolls	Equations
•	1+1= 2 1÷1= 1	•	1+4= 5 4-1= 3
			4x1= 4
•	1+2= 3 2-1= 1	• •	1+5= 6 5-1= 4
	2x1= 2		5x1= 5
• •	1+3= 4 3-1= 2	•	1x6= 6 6-1= 5
	3x1= 3		6x1= 6
•••	2+3= 5 3-2= 1		2+4= 6 4-2= 2
	2x3= 6		2x4= 8
•••	2+5= 7 5-2= 3		2+6= 8 6÷2= 3
	2x5= 10		6x2= 12 6-2= 4
••••	2x2= 4 2÷2= 1	••••••	3x3= 9 3÷3= 1
			3+3= 6
••••	3 + 4= 7 4-3= 1	••••••••••••••••••••••••••••••••••••••	5-3= 2 3x5= 15
	3x4= 12		5+3= 8
	4x4= 16 4÷4= 1		4+5= 9 5-4= 1
	4+4=8		4x5= 20
	6+4= 10 6-4= 2		5+5= 10 5÷5= 1
	4x6= 24		5x5= 25
	6-5 =1 5+6 =11		6÷6= 1 6+6= 12
	6x5= 30		6x6= 36
•••	6-3 =3 3+6 =9		
	6x3= 18 6÷3= 2		

Alternate Game: Use three dice and use sums.

Bonus Points: If you are able to complete two shapes with one flip, score an extra point.

Steal Rule: If a player misses their own winning line up of arrows, then any other player can steal the win.

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