This is a simplified version of the famous game of Nim and with some logical thinking it is possible to give yourself a much better chance of winning.

What you need:
- a board (see second page)
- 12 coloured counters

What to do:
Lay the counters out, one on each of the shapes on the board.

Decide who is to go first.

The first player may take 1, 2 or 3 counters away. Then it is the turn of the second player.

The player who removes the last counter wins the game.

Further info:
This is definitely a game of strategy, because the person who goes first should be able to win - if they know the mathematics behind the task!

After a few games players will soon realise that if they are faced with 4 counters left then they will lose the game! On the other hand, if they leave their opponent with 4 counters they will win!

Remember to talk about what is happening and why you are doing it.

Note: This is Mrs. Milton's favorite game!
This is for 2 players.
Put a counter on each of the shapes below.
When it is your turn you may take 1, 2 or 3 counters away.
The player who takes the last counter is the winner.
Addition Tic-Tac-Toe

1. Players choose markers in **two different** colors or sizes. (you can use coins, candy, bingo chips, etc.)
2. The first player chooses two **addends** from the bottom of the game board, places a paper clip on each, and marks the **sum** with his/her color marker.
3. The second player moves one of the paper clips to a new **addend**, finds the **sum**, and marks the **sum** with his/her color marker.
4. Play continues until one player has marked **four sums in a row, a column, or a diagonal**.

Note: It is legal to move the paper clip to the same addend of the other paper clip to allow for doubles such as $5 + 5$.

Guardian

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One-to-One Math

$2 \rightarrow 3$