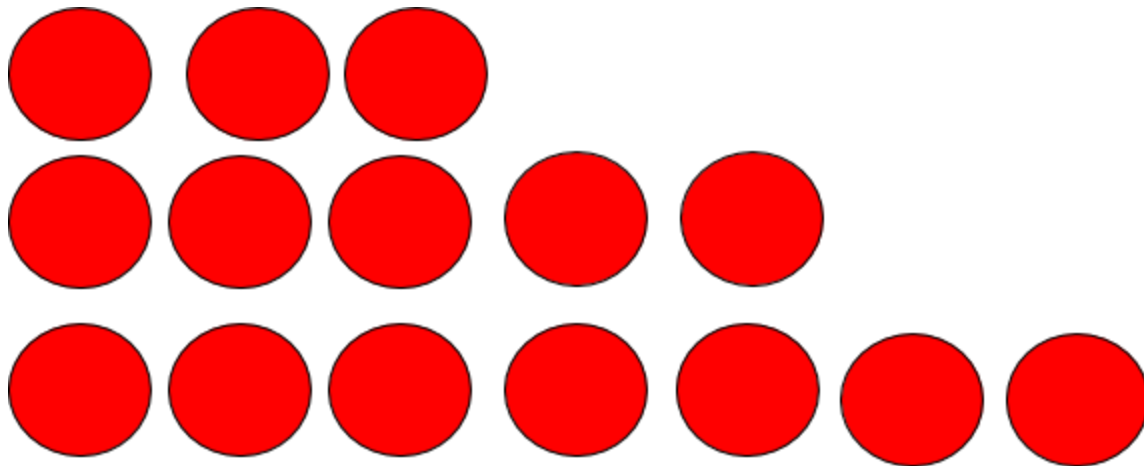


NIM

There are many variations of the game NIM. It is believed to have originated in China, although there is some uncertainty.

The variation you are learning today involves three rows of objects, in a 3, 5, 7 arrangement. You can use any object you want.



The rules are very simple:

There are two players and the first player takes as many objects as he wants, as long as they are from the same row. The players alternate until the last piece is taken. The object is to be the one to take the last piece.

How Close to 100?

Rules:

- This game is played in partners. Two children share a blank 100 grid.
- The first partner rolls three number dice.
- The player chooses two of the three dice to multiply. If 3, 4, and 6 are rolled, the player can choose 3×4 , 3×6 , or 4×6
- He/She creates an array to represent the problem and colors it in.

Here is a 3×2 array (or 2×3 if you prefer)

- After the player draws the array on the grid, she writes in the number sentence that describes the grid.
- The second player then rolls the dice, draws the number grid and records their number sentence.
- The game ends when both players have rolled the dice and cannot put any more arrays on the grid.
- How close to 100 can you get?

A variation of this game is to have each player use his/her own grid.

This game is great to develop the array model to represent multiplication.

Here is a link to the recording sheet:

<https://bhi61nm2cr3mkgk1dtaov18-wpengine.netdna-ssl.com/wp-content/uploads/How-close-to-100-handout.pdf>

Rock and Roll Bingo

Materials: Bingo Board
Two Colored Counters
Two Dice

Two players work together to get five counters in a row.

The two players take turn rolling dice. When the dice are rolled, the players decide what number to mark with a counter. Either a number shown on a die or the sum of the two dice (the total of the two dice added together) can be marked.

If there is no number available, the player who last rolled will roll again.

See if you can get 5 in a row either up and down (vertically) side to side (horizontally), or diagonally.

The middle space can be marked if a 10, 11, or 12 is rolled.

See if you can get Bingo in the fewest moves!!!

*Can you think of a variation of the game??

Rock and Roll Bingo Board

7	5	10	2	6
8	9	8	7	11
5	7	10,11,12	1	5
6	4	12	3	9
8	7	6	4	3

Four Strikes and You're Out

This game is a numerical version of Hangman.

This game requires two players. Player 1 thinks of a two digit + two digit equation and writes it down horizontally on a Post-it without Player 2 seeing.


$$\square\square + \square\square = \square\square$$

When the equation is prepared, Player 2 tries to guess the digits that are in the number. If Player 2 guesses correctly, Player 1 fills in the digit in the correct place. If it appears twice or more in the equation, he/she fills it in. If Player 2 guesses a digit that is not in the number, it is a strike. 4 strikes and the game is over!!

After a digit or two gets filled in, try to use strategies to figure out what other digits are!!

This game can be also played with subtraction, and with larger numbers.

Have fun!!

Four Strikes and You're Out

Players: Two or more

Materials: Paper with equation(s)

In order to play this game, you need to set up an equation (any operation, any size). The game works like Hangman, in that the participants begin by guessing a digit that is in the equation. If the player guesses correctly, the digit is written in the equation as many times as it appears. If the digit is incorrect, then the number is crossed out, and that represents 1 strike. Four strikes, and the game is over!

_____ + _____ = _____
0 1 2 3 4 5 6 7 8 9 Strikes 1 2 3 4

_____ + _____ = _____
0 1 2 3 4 5 6 7 8 9 Strikes 1 2 3 4

_____ + _____ = _____
0 1 2 3 4 5 6 7 8 9 Strikes 1 2 3 4

_____ + _____ = _____
0 1 2 3 4 5 6 7 8 9 Strikes 1 2 3 4

_____ + _____ = _____

0 1 2 3 4 5 6 7 8 9 Strikes 1 2 3 4

_____ + _____ = _____

0 1 2 3 4 5 6 7 8 9 Strikes 1 2 3 4

_____ + _____ = _____

0 1 2 3 4 5 6 7 8 9 Strikes 1 2 3 4

_____ + _____ = _____

0 1 2 3 4 5 6 7 8 9 Strikes 1 2 3 4

_____ + _____ = _____

0 1 2 3 4 5 6 7 8 9 Strikes 1 2 3 4

Number Grid Tic-Tac-Toe

Materials: Colored pencils of two different colors.

Blank number grid from 0-120

Two players are needed for this game.

The game begins with one player writing a number anywhere on the grid in his/her color. Both players should make sure that each number is placed correctly. The second player then writes another number using his/her color in a different location. The goal of the game is to get strings of 4 numbers in a row (horizontally, vertically, or diagonally) of that player's color.

When a player gets a string, he/she makes a tally in the tally chart. The game is over when the chart is completely filled. Whoever has the most strings is the winner!

Other Games:

Mobi-Tile game (available on Amazon)

Tiny Polka Dot Cards (available on Amazon)