

NEU Math Night

April 13th, 2023

Using manipulatives, games, and apps at home for math enrichment

Math in the Kitchen:

- Measuring cups and spoons
 - Equivalent Fractions
 - Volume
 - Capacity
- Baking Dishes/Bowls
 - Circumference
 - Area/Perimeter
 - Measurement Tools
(rulers, tape measures)
- Utensils
 - Sorting
 - Addition/Subtraction
 - Multiplication/Division
 - Measurement
- Food Items/Snacks
 - Sorting
 - Addition/Subtraction
 - Multiplication/Division
 - Measurement
 - Volume
 - Weight
 - Area/Perimeter
 - Fractions
 - Ratios
 - Shapes
 - Telling Time

Math in the Garage:

- Tools and Machinery
 - Sorting
 - Addition/
Subtraction
 - Multiplication/
Division
 - Measurement
 - Volume
 - Weight
 - Area/Perimeter
 - Fractions
 - Ratios
 - Shapes
 - Spatial Awareness

Game Night

. Yahtzee

- o Counting
- o Multiplication
- o Repeated Addition
- o Geometry
- o Sorting
- o Addition

Deck of Card

- o Memory
- o War (comparing numbers)
- o Sorting
- o Least to Greatest
- o Addition/Subtraction

Game Night (cont.)

- Monopoly/Life
 - o Money Management
 - o Life Skills
 - (exposure to language and situations)
- Perfection
 - o Shapes
 - o Sorting
 - o Timed Challenges
- Chess/Checkers
 - o Problem Solving
 - o Strategy Building
- Dominoes
 - o Counting
 - o Matching
 - o Multiplication
 - o Addition/Subtraction
- Uno/Phase Ten
 - o Counting
 - o Sorting
 - o Colors
 - o Comparing Numbers

Mathigon.org

- Interactive Manipulatives
- Ten-Frames
- Abacus
- Number Lines
- Fraction Strips
- Fractals
- Polygons
- Rulers and Scales
- Dice
- Digital Playing Cards
- Flash Cards
- Hundreds of Other Games and Tools
- GREAT for exploring different math Concepts
- Visual-Based

The screenshot displays the 'The Mathematical Playground' section of the Mathigon.org website. The background is a dark red with a subtle fractal pattern. At the top, the title 'The Mathematical Playground' is in white, followed by the text 'Free tools, courses and manipulatives to make online learning more interactive and engaging than ever before.' Below this is a white box containing the 'Polypad' logo and a description: 'Unleash your creativity with the world's best manipulatives! Engage in problem-solving, explore patterns and collaborate with others.' There are three buttons: 'Launch Polypad', 'Lesson Plans', and 'Tutorials'. To the right of the text is a collage of various mathematical manipulatives including geometric shapes, a ruler, a protractor, a coordinate plane with a sine wave, a balance scale, playing cards, dice, and a globe. Below the white box is a grid of eight colorful tiles, each representing a different mathematical topic: Fractals, Flash Cards, Timeline, Sequences, Graph Theory, Factris, Origami, and Symmetry.

The Mathematical Playground

Free tools, courses and manipulatives to make online learning more interactive and engaging than ever before.

Polypad

Unleash your creativity with the world's best manipulatives! Engage in problem-solving, explore patterns and collaborate with others.

[Launch Polypad](#) →

[Lesson Plans](#) →

[Tutorials](#) →

Fractals

Flash Cards

Timeline

Sequences

Graph Theory

Factris

Origami

Symmetry

KhanAcademy.org

The screenshot displays the Khan Academy interface. At the top, there's a navigation bar with 'Courses', 'Search', and the Khan Academy logo. Below this, the left sidebar shows the '3rd grade' course structure, including 'Lesson 1: Fractions intro' and 'Intro to fractions'. The main content area is titled 'Intro to fractions' and includes the standards 'CCSS.Math: 3.G.A.2, 3.NF.A.1' and a 'Google Classroom' link. The central video player shows a hand-drawn diagram of a square divided into four equal parts, with one part shaded red and labeled '1/4'. A pink rectangle is also shown, divided into eight equal parts, with one part shaded red and labeled '1/8'. The text 'That looks pretty good.' is displayed below the diagrams. Below the video player, there are tabs for 'About' and 'Transcript', and a description: 'Sal divides wholes into equal-sized pieces to create unit fractions. Created by Sal Khan.' At the bottom right, there's a 'Sort by: Top Voted' dropdown menu.

Courses ▾ Search

Khan Academy

Get AI Guide Donate Login Sign up

3rd grade

COURSE: 3RD GRADE > UNIT 5
Lesson 1: Fractions intro

Intro to fractions

Cutting shapes into equal parts

Cut shapes into equal parts

Identifying unit fractions word prob...

Identify unit fractions

Math > 3rd grade > Understand fractions > Fractions intro

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Intro to fractions

CCSS.Math: 3.G.A.2, 3.NF.A.1 Google Classroom

Fraction

Whole

Whole

$\frac{1}{4}$

$\frac{1}{8}$

That looks pretty good.

About Transcript

Sal divides wholes into equal-sized pieces to create unit fractions. Created by Sal Khan.

Sort by: Top Voted ▾

- Comprehensive Lessons for ALL Grades
- Videos
- Digital Worksheets
- Quizzes
- Tracks Progress
- Highly Rated

Coolmath.com

Coolmath.com Calculators Pre-Algebra Algebra Pre-Calculus Practice Tools & Reference ▾



2048

Add like numbers to win this one. Can you get to 2048?


[Play Now](#)



Lemonade Stand

Run a lemonade stand and make lots of money!

[Play Now](#)



Building Rush

Run a construction company with a fleet of trucks!

[Play Now](#)



Kakuro

Fill in numbers correctly. Don't make a mistake!

[Play Now](#)



Crazy Taxi M-12

You need to know your times tables FAST for this game.

[Play Now](#)



Fraction Splat

Click on the right kind of fraction to make it go SPLAT!

[Play Now](#)



Coffee Shop

Run your own coffee shop in this business game.


[Play Now](#)



Subtraction Blast

Great arithmetic practice while you get to shoot stuff.

[Play Now](#)



Math Lines: Xfactor

Aim and shoot to clear the numbers!


[Play Now](#)



Sudoku

Fill in the spaces with the right numbers.

[Play Now](#)



Make 15

Try to make 15 without letting the computer do it!

[Play Now](#)



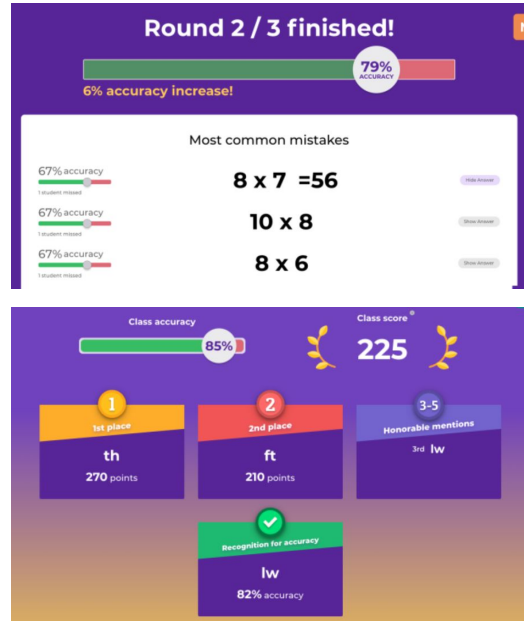
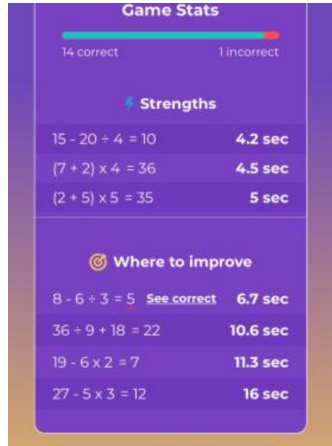
Color 21

How long can you last? Practice your addition!

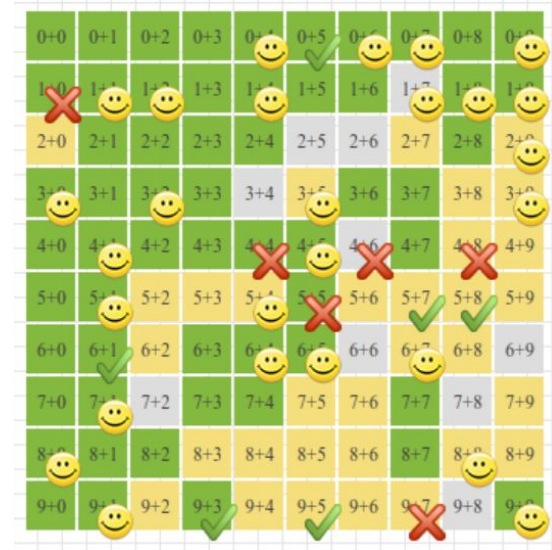
[Play Now](#)

- Fun math games for kids to play from their web browser
- Other tools, calculators, and resources

99math.com



Xtramath.org



$$\begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array}$$

7	8	9
4	5	6
1	2	3
0		



These websites are great for practicing and memorizing basic operation facts!