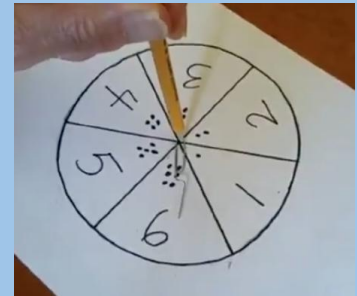


# Math Games

Contact Information: Lenny VerMaas, [lennyvermaas@gmail.com](mailto:lennyvermaas@gmail.com) Twitter @LennyVerMaas  
Home Website <http://bit.ly/lennyv>

This document can be found at <http://bit.ly/lennyvgames>

- Math games [Powerpoint](#) [Sample Games Handout](#) [Math is Everywhere Packet](#)
- <http://bit.ly/lennyvroutines>
- Apps resources can be found at <http://bit.ly/lennyvapps>
- Elementary resources can be found at <http://bit.ly/lennyvelementary>
- Homework Alternatives <http://bit.ly/lennyvhomeworkalt>
- [Why Use Games](#) [Parents & Math Note](#)
- [Game Night Ideas](#) -feel free to add your ideas
- [Game thoughts](#) and more games
- [Virtual manipulatives](#) ideas for using manipulatives and resources/links for virtual manipulatives.
- Virtual vs Physical Manipulative [Build Math Minds](#)
- [Virtual Pattern Blocks](#)
- Virtual card games <https://playingcards.io/>



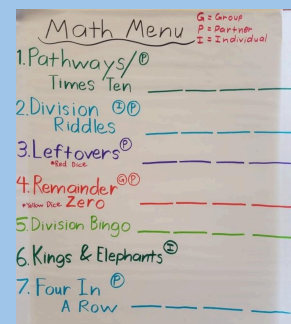
## Sources for More Games

- Games from [Love Maths](#) Lots of games by level
- [Games to Make Math Better](#)
- [Games for Young Minds](#) site with games by grades
- Teresa Wills-[Collaborative Math Games](#)
- [Richard Byrne](#) shares his favorite site to find games
- [Games from Math=Love](#)
- [Susan's Math Games](#)
- [Table Talk Math](#) great resource for talking about math
- [5 favorite math games](#)
- [Illustrative Math](#)
- 4 games from [Marilyn Burns](#)
- [Education.com](#) filter by grade
- <http://www.openmiddle.com/> by grade level and content.
- [Tiny Polka Dot Games](#) and videos of how to play
- Kent Haines <https://www.gamesforyoungminds.com/>
- [12 ways to Do Math this Summer](#)
- [MMMathMania](#) games and fluency

## Learning Centers

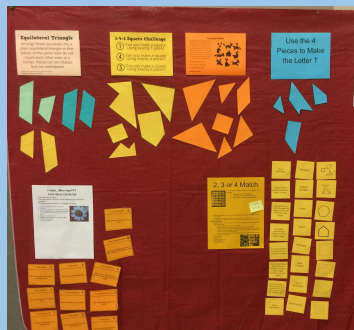
### Math menus

Apps, games, and bellringers may be used in a whole class setting. They may also be used in centers to differentiate learning and create a variety of learning environments. [This document](#) provides thought and ideas for that environment.



[Link to](#) Procedural Fluency Games & Routines

## Sticky or Cling Cloth

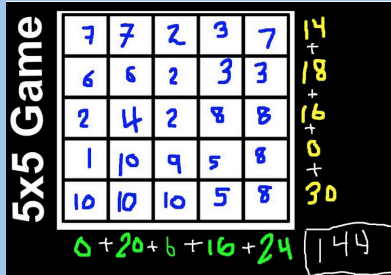


<https://bit.ly/lennysticky>

Resources Link

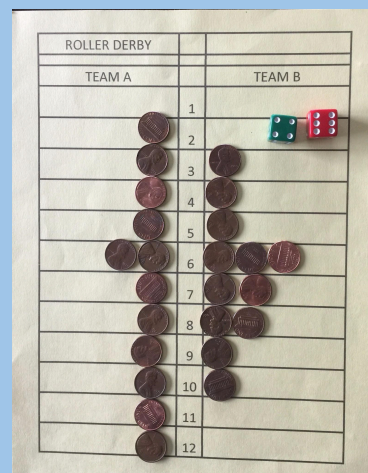
## 5X5 Game

Level grade 3 & up doubles



- [Game board slides with Rules](#)
- [Instructions and hints to play](#) from Sarah Vandewerf
- [Board slides with movable pieces](#)

## Roller Derby

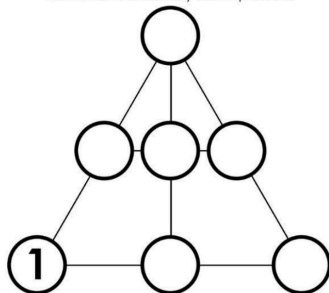


[Game Board & Rules](#)

[Video Instructions](#)

## LINES OF 3

Place the numbers 1 to 7 in the spaces below so that the sum of the numbers on each line of 3 circles has the same sum. One of the numbers has already been placed.

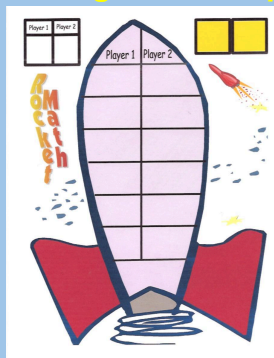


Puzzle Source: 199 985, mathématiques à monique 1, 041 112 (alignement de trois lettres)  
©2014 Les Jeux (Original Source: Tournoi de 3, 1998)

[Games document](#)

## Rocket # Sense

Level grade 2 & up

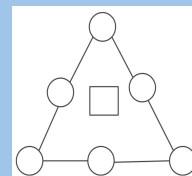


[Document](#) with a game board  
[Video Instructions](#)

## Triangle Numbers

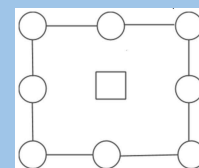
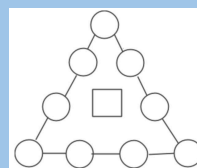
Level grade 1 & up

Place the number 1-6 in the circles so that the sum of the numbers on each side of the triangle is equal.



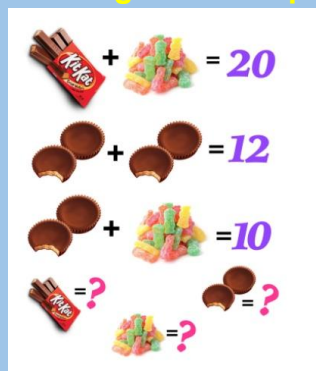
[Game Board & Rules](#)

Or try these similar puzzles



## Picture Equations

Level grade 3 & up



## Tangram

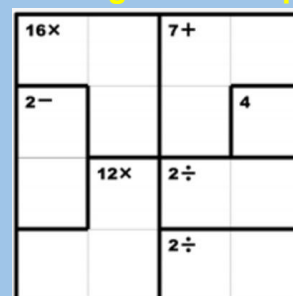
Level grade 1 & up



[Tangram Activities](#)

## KenKens

Level grade 2 & up



[Document](#)

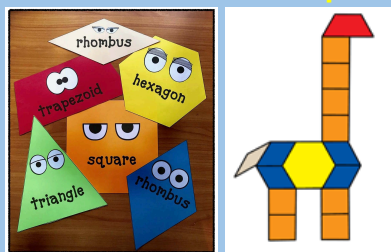
More [Picture Equations](#) samples  
[Picture Equation Center](#)

[Math Center Sheet](#)

with rules and links  
 Available as website or app  
[Math Center Sheet](#)

## Pattern Blocks

Level Pre-K and up



[Math Center Sheet](#)

Using pattern blocks to  
 measure angle [Marilyn Burns](#)  
[Patch Tool](#) Virtual pattern  
 blocks

## 1-10 Card Investigation

Level grade 3 & up



Marilyn Burns

- [The Challenge](#)
- [Powerpoint](#)
- [Why we should not give away the answers](#)
- [Math Center Document](#)
- Extension: to from 1 to 9 and back to 1

## Build Those Numbers

Level grade 2 & up

0 =		7 =	
1 =		8 =	
2 =		9 =	
3 =		10 =	
4 =		11 =	
5 =		12 =	
6 =			

[Math Center Sheet](#)

With rules and sheet

## 100 or Bust

Level grade 3 & up

Game 1		
Tens	Ones	Total

A single die is rolled 7 times.  
 The number rolled can be  
 placed in the tens or the ones  
 place. A running total is  
 recorded. A bust occurs if the  
 total is over 100. Younger  
 students can keep track of  
 the sum using a 100's chart.  
[Game Board](#) with rules and  
 100 grid

## 1000 or Bust

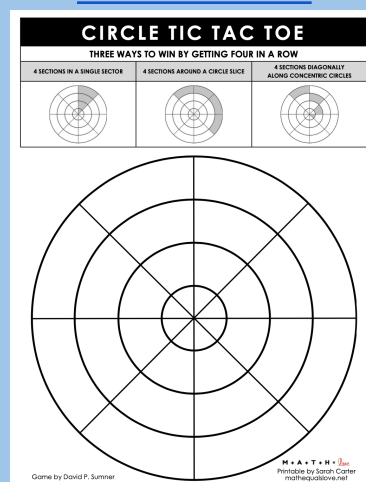
Level grade 3 & up


Create a 3 by 3 grid. A single  
 die is rolled. Players place the  
 number in one of the 9 cells.  
 Three digit numbers are  
 created. The goal is to make  
 the sum of the numbers as  
 close to 1000 as possible  
 without going over.  
[Game Board](#)

## Circle Tic Tac Toe

From Sara Carter

[Gameboard Link](#)



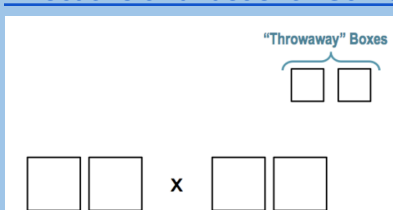
## Find a Place

Level grade 2 & up

[Game board, rules & video](#)

## Number Boxes

[Directions and Ideas for Game](#)



## Got It

[Online adaption](#) game board

Player A					Player B			
Hundreds	Tens	Ones	score	Target	score	Hundreds	Tens	Ones
				0				
				50				
				100				
				500				
				1000				
Player A's final score Difference between created number and goal or target number				Total	Player B's final score Difference between created number and goal or target number			

Similar to open middle except that students are given randomly generated numbers and must place them in the boxes (with thrown away box) as they are drawn. Box format changes by grade level.

## Let's play "Got it!"

Find 17

3	-	6	x	2	+
-	1	+	10	-	4
7	x	5	-	3	+
+	9	+	8	-	12
4	x	3	x	2	-
+	1	-	13	+	11

## 24 game



Use 4 numbers and operations to come up with 24. [Computer App](#)

## Digit Place

### [A Secret Number Quest](#)

Guess	Digit	Place
14	1	0
80	0	0
67	0	0
20	1	0
45	1	1
40	1	1
42	2	2

## Four Strikes and You are Out

Similar to hangman or wheel of fortune with numbers. Provide a problem + = Use the digits 1,2,3,4,5,6,7,8,9,0 to fill in the blanks and complete the problems. One digit in each spot and digits may go in more than blank. Great suggestions to get started in the [blog post from Marilyn Burns](#).

*Four Strikes and You're Out*

3 5 +    0 =    5

[Powerpoint](#)

X X

0 1 2 3 4 5 6 7 8 9

## Games From Marilyn

- [Cross Out Singles](#)

### Other Games

- YouTube on [Grouping and Grazing](#)
- [Ten Frame](#) from Illuminations
- [Lets count to 5](#) from Illuminations
- [Lets count to 10](#) from Illuminations
- [Bunny Times](#), works on multiplication up to 12X12. From Illuminations
- [600 game](#)
- [Math Solutions](#)

[Games for Young Minds](#)

100 Chart Connect 4

[SOMA Challenge](#)

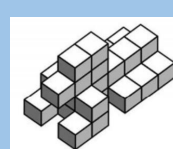


- [Shut the Box](#) Level K-1
- [Fifteen](#) Level K-1
- [Manifold](#) Level K-1

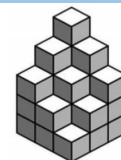
## Level gd 2 Multiply Chart gd 3-5



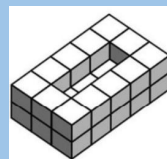
### [Game Board Rules and Ideas](#)



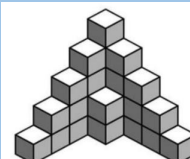
THE DOG



THE CRYSTAL



THE BATHTUB



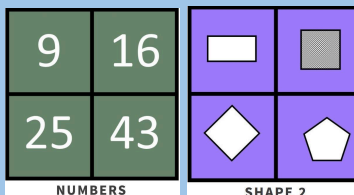
THE CORNER STONE

## Response Sheet or Clear Plastic Cheap Sheet Protectors

[Powerpoint](#)

## WODB

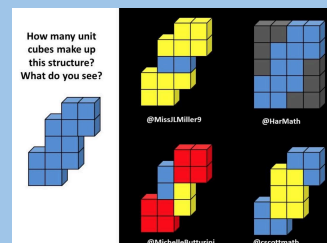
### Which One Doesn't Belong



[Website](#)  
[Shapes Book](#)

[WODB Document](#) with  
resources and links

## Cube Conversations



Steve Wyborney  
@SteveWyborney

- [Steve's Website](#)
- [Website](#) for free downloads as well as introductory video.
- [Download all 80 here](#)
- [Youtube overview video](#)
- [Sample Powerpoint](#)
- [Sample #61](#)
- [Splat](#) for google slides

## Learning to Talk in the Math Classroom



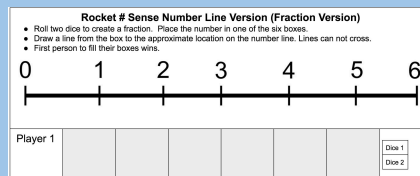
[Document](#)  
[Math Talk Images](#)

## Estimating is Different than Guessing



[Powerpoint](#)  
[Estimation Resources](#)

## [Number Line & Fractions](#) [board](#)

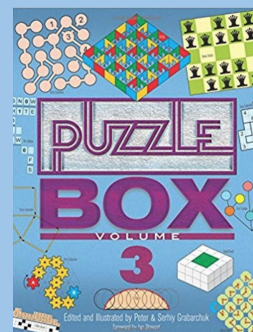


- [Fraction fill-in](#)

## Review Games

- Quizlet
- [5 ways to use Quizlet Live](#)

## Puzzles Resources



[Math=Love Puzzle Index](#)

[The Big, Big, Big Book of Brainteasers](#) comes highly recommended by Sarah whose has blog Math=Love

## 20 Math Games [Kathleen Morris](#)

### 20 MATHS GAMES

5 - 8 year olds



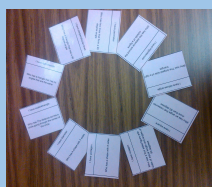
Fun | Simple | Minimal Equipment

Kathleen Morris

[www.kathleenamorris.com](http://www.kathleenamorris.com)



## Line Up or Circle Up I Have...Who Has



Use sets of "I have..who has?" cards to have students place cards in a circle.

[Video Demonstration](#)

[Powerpoint](#)

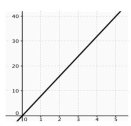
[Flash Card Spreadsheet](#)

## 3 or 4 Match

This person earns \$8.00 for every hour that they work.

$$Y = 8X$$

Time	Amount Earned
0	0
1	8
1.5	12
2	16
3	24
4	32



[Video Demonstration](#)  
[Template](#) Use table, after completed set table border = 0

ACT Review [#1](#) [#2](#) [#3](#) [#4](#) [#5](#)

[Distance Time 4](#)

[Fill Empty Cup](#)

[Systems of Equations](#)

## Scavenger Hunt or Zip Around

Place "I have,,who has" problems on a sheets of paper. Scatter the problems around the room. Problems can come homework. Students randomly begin at a problem and continue until the complete the circuit.

[Sample](#)



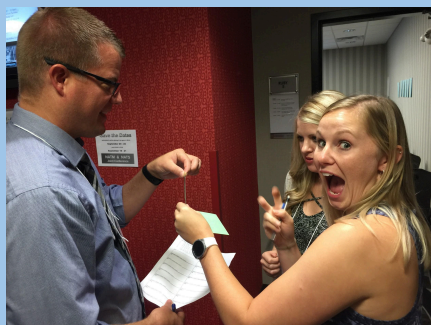
## Wages & Graphs Pattern Block I Have...

Snap and Drag is a great program to clip part of your screen and place the image on a card.

## Quiz, Quiz, Trade

Each student receives a note card with a question on one side and answer on the back. Students pair up, trade cards, work the problem, talk about any questions, and then pair up with another student.

[Quiz, Quiz, Trade form](#)






## Wager Game or Golf

Students bet from 0 to 5 points if they will get the answer to the question correct. Correct answers add to total, incorrect subtract from total.


[Powerpoint Document](#)

## Fractions

- [Compare Fractions](#) from Illustrative Math

$\frac{1}{4}$		$\frac{1}{8}$
$\frac{1}{6}$		$\frac{1}{2}$
$\frac{2}{3}$		$\frac{2}{8}$

- [Fraction Talks](#) from Table Talk math.

Let's play [Make a Match](#) from Origo Math. You are Player 1 and your next roll is a 4.   
**Q7: What's your next move?**  
Explain your strategy

Player 1	Make a Match	Player 2
Make the greatest number		
9		8
Make the least number		
1 2		2
Make a number closest to 5000		
		9

**Where will you place your 4?**


1. Make a greatest number? Where? Why?
2. Make the least number? Where? Why?
3. Make a number closest to 5,000? Where? Why?

You are playing [TARGET 10](#). You roll a 2.

**Q6: What's your next move?**  
Share your strategy? What would you want to get next? Why?

Target 10		
Ones	Tenths	Total
4	0	4.0
0	0.3	4.3
0	0.9	5.2

**How do you win?**  
After 8 rounds, the player whose total is closest to 10, but not over 10 wins!

Your next roll is a 2.   
Do you want to make that 2 or 0.2? Why?

#elemmathchat

Rich tasks can be playful too.

**Q4: What is one set of five positive whole numbers that satisfy these conditions?**  
(there are several solutions.)

How did you get started?

I have five numbers.

Their mean is 4.

Their median is 3.

Their mode is 3.

<https://nrich.maths.org/>