



CENTIPEDE MATH®

# Why Centipede Math?



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**In 2017, I presented at the  
Annual International  
Conference for the Learning  
Disabilities of America in  
Atlanta, GA.**



# **The State sees educational validity in Centipede Math.**

**Our apologies on the mix up with  
resource/curriculum. However, we  
unfortunately still do not have any funds to  
provide this at the state level, so we  
encourage you to reach out to local district  
coordinators.**

**All the best,  
Jamey Falkenbury  
Director of Government Affairs  
Office of Superintendent Truitt  
NC Department of Public Instruction  
[Jamey.Falkenbury@dpi.nc.gov](mailto:Jamey.Falkenbury@dpi.nc.gov)**

**Mar 21 2022, 4:17 PM**

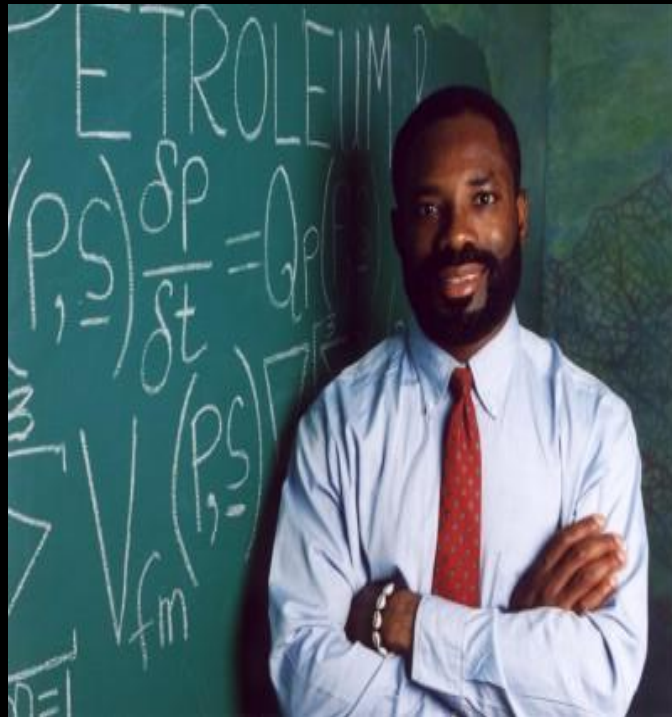
CENTIPEDE MATH®

**Centipede Math is  
as easy as riding a  
bike with training  
wheels.**



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**It does not take a  
rocket scientist to do  
Centipede Math.**





CENTIPEDE MATH®

**It takes less time to  
learn and teach  
Centipede Math.**



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**It teaches children  
how to  
conceptualize math  
before memorizing  
math facts.**





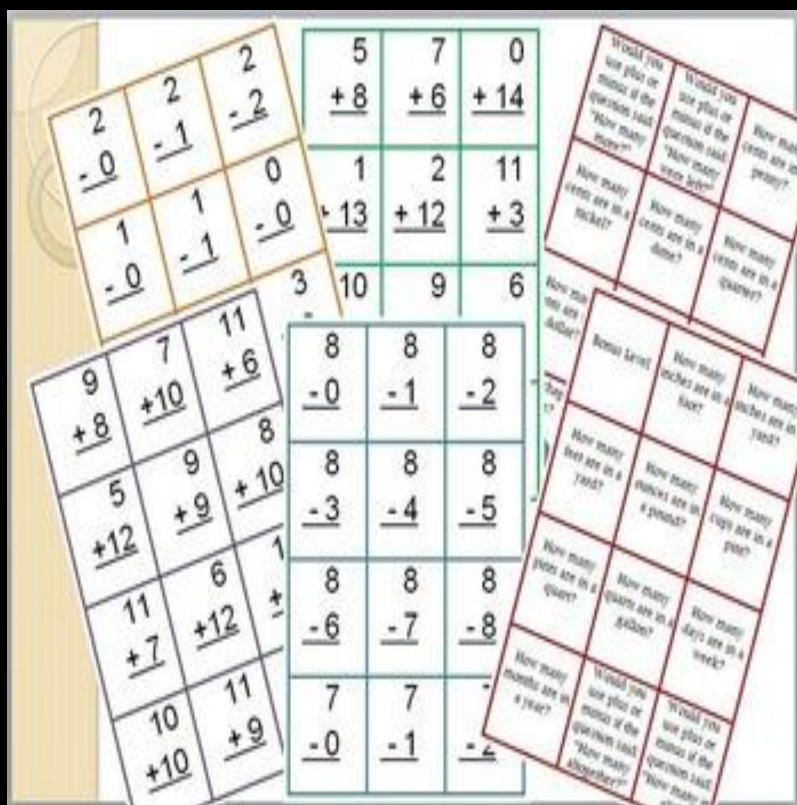
**It utilizes  
manipulatives to  
develop mathematical  
thinking of abstract  
concepts.**



**It takes away the  
mystery of learning  
math in children  
who feel  
uncomfortable  
learning math.**



It takes away  
tireless drills and  
flashcards.



# It removes using Fraction Tiles, etc.



**It does not use lots  
of pieces to solve  
math problems.**









**It eliminates saying,  
"I cannot remember  
my math facts."**



*Centipede Math Fraction  
Blocks and the Centipede*  
make fractions easy.



The *Centipede* simplifies fractions by reducing the number of steps.

1. Fraction addition - <u>common denominators</u>	Add the numerators, and use the common denominator
2. Fraction addition - different denominators	First find a common denominator by taking the least common multiple of the denominators. Then convert all the addends to have this common denominator. Then add using the rule <u>number 1</u> .
3. Finding equivalent <u>fractions</u>	Multiply both the numerator and denominator by a same <u>number</u> .
4. Convert a mixed number to a fraction	Multiply the whole number part by the denominator and add the numerator to get the numerator. Use the common <u>denominator as in the fractional part of the mixed number</u> .
5. Convert an improper fraction to a mixed <u>number</u>	Divide the numerator by the denominator to get the whole number part. The remainder will be the numerator of the <u>fractional part</u> . <u>Denominator is the same</u> .

The *Centipede* simplifies fractions by reducing the number of steps.

6. Simplifying fractions	Find the (greatest) common divisor of the numerator and <u>denominator, and divide both by it.</u>
7. Fraction <u>multiplication</u>	Multiply the numerators and the denominators.
8. <u>Fraction division</u>	<u>Find the reciprocal of the divisor, and multiply by it.</u>
9. Comparing fractions	Convert the fractions so they have a common denominator. <u>Then compare the numerators.</u>

**It takes away the  
anxiety of teaching  
math in teachers who  
feel uncomfortable  
teaching math.**



**It makes parents feel  
comfortable in  
assisting their  
children in learning  
math.**





**It teaches students  
to use their hands  
and eyes to teach the  
brain.**



**It puts the “fun”  
back into learning  
the fundamentals.**



**Centipede Math  
accelerates the  
student's ability to  
learn and retain  
math concepts  
within a short  
period.**



**Its strategies assist  
students by  
breaking knowledge  
into small steps.**



**Its strategies are so  
simple that students  
achieve mastery  
within a shorter  
period than using the  
traditional methods.**

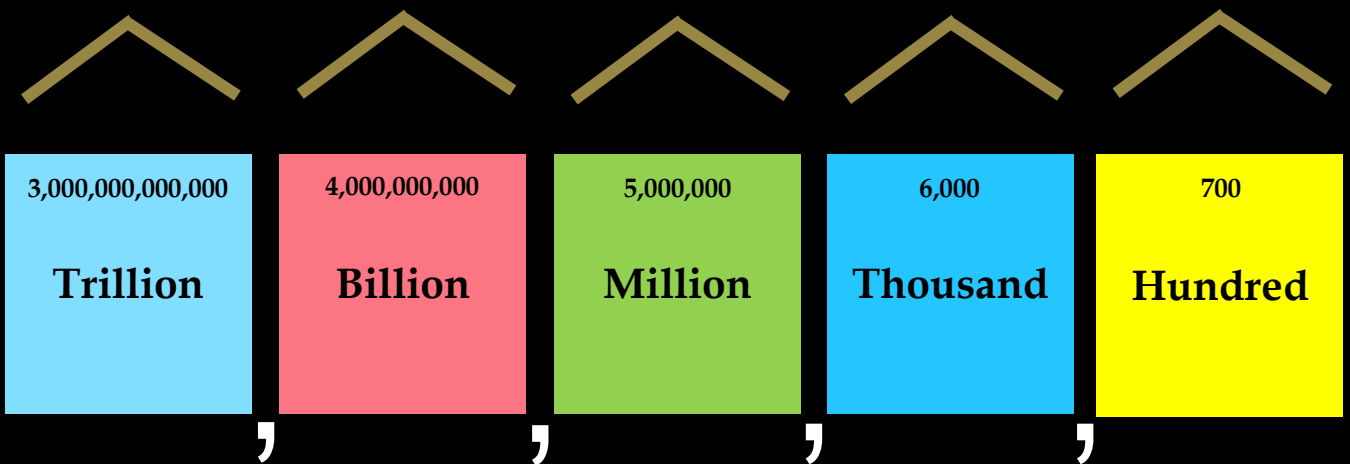


*Centipede Math* has over 50+ strategies that cover a plethora of mathematical problems. Each strategy comes with its own board and materials.

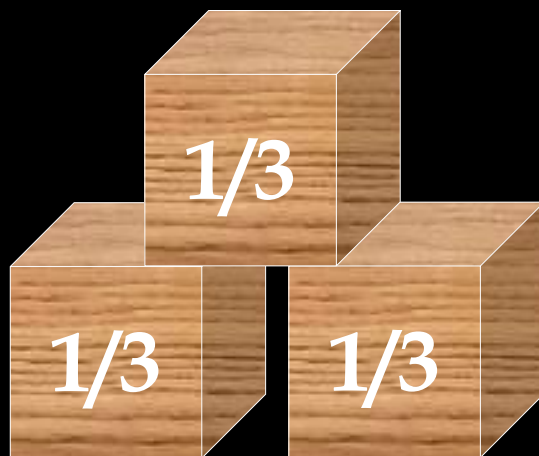
Its major strategies, of many, are Number Street, Group, the Centipede, Di-Vision, and Fraction Centipedes.



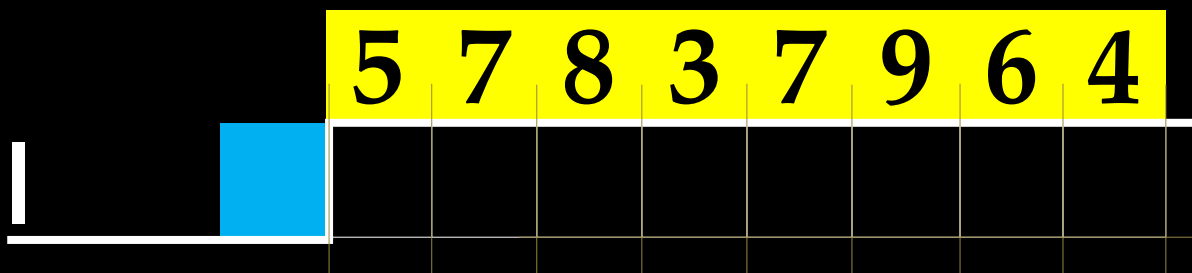
# *Number Street* develops numbers sense.



The *Group* connects  
the rationale of a child  
to the fundamentals of  
basic math using  
*Centipede Fraction  
Blocks.*

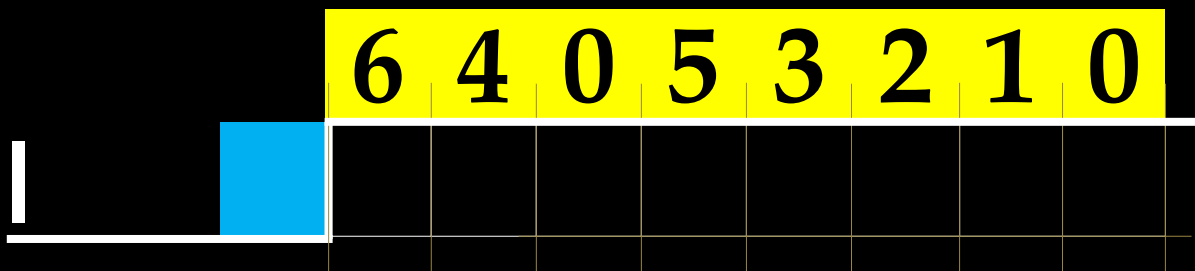


The *Centipede* is a tool used to retrieve math facts and solve addition, subtraction, multiplication, division, fraction problems, and other math skills. It comes with a variety of Centipedes.

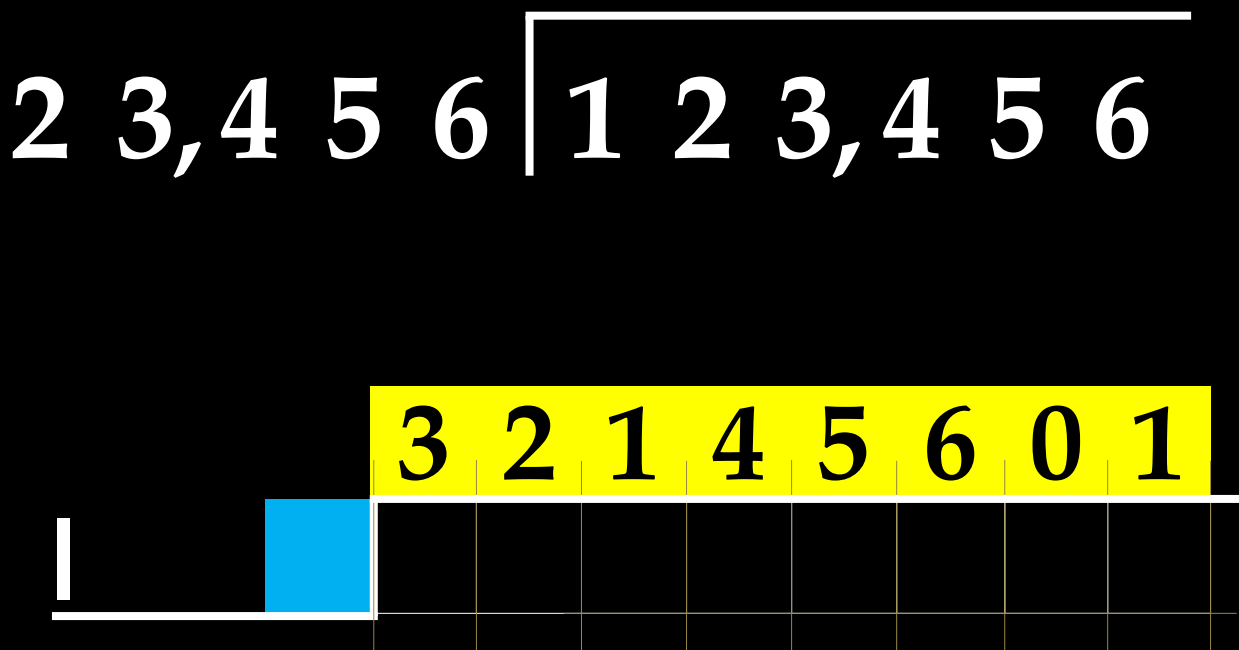


*Fraction Centipedes*  
solves addition,  
subtraction, and  
division problems.

$$\begin{array}{|c|} \hline 4 \\ \hline 5 \\ \hline \end{array} + \begin{array}{|c|} \hline 3 \\ \hline 6 \\ \hline \end{array} = \begin{array}{|c|} \hline \\ \hline \end{array} \begin{array}{|c|} \hline \\ \hline \end{array} = \begin{array}{|c|} \hline \\ \hline \end{array}$$



*Di-Vision* allows  
students to solve  
division problems free  
of stress and anxiety.



**Centipede Math  
teaches math  
the way it makes  
sense to children  
who struggle with  
math.**

