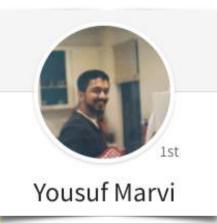
CREATION, DISCOVERY AND COMPUTATION WITH CURIOSITY DRIVEN MATHEMATICS

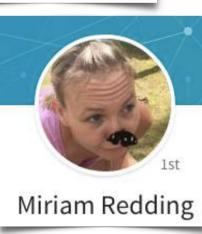
YONI NAZARATHY

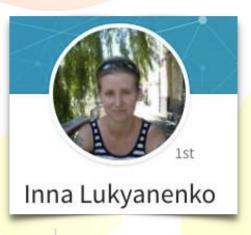


ONE ON EPSILON DRIVING CURIOSITY AND NURTURING CONNECTION

OUR CONTENT TEAM:















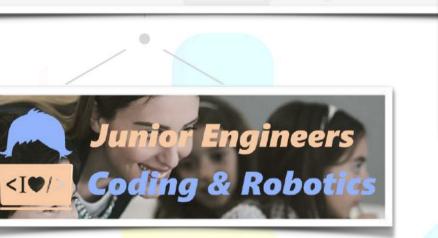


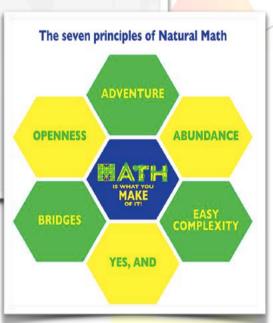
October 10th -17th, 2017 Register NOW!

GLOBAL MATH WEEK

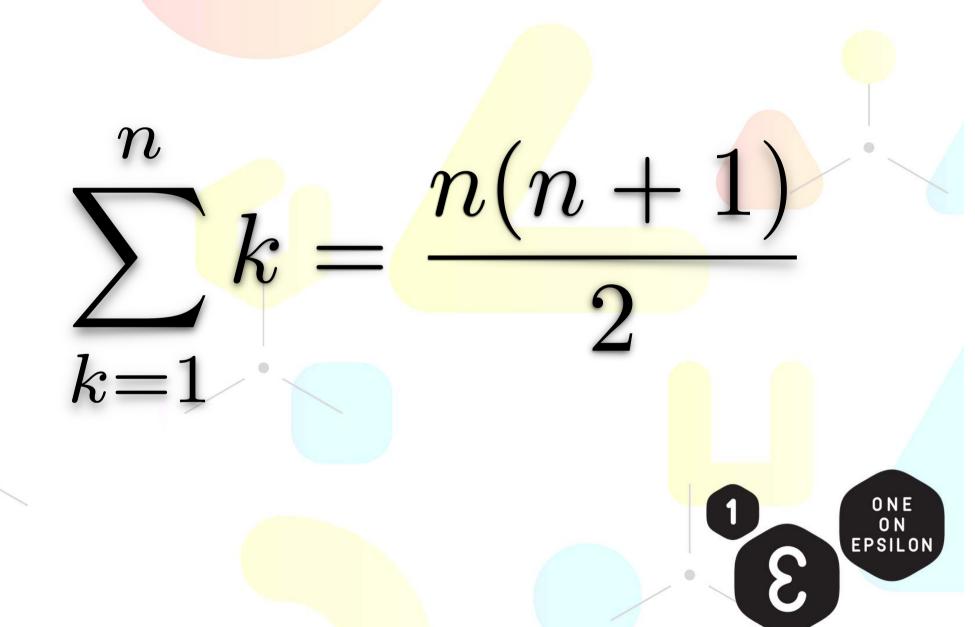


REGISTER NOW









```
IBM Swift Sandbox BETA

let n = 100
var loopSum = 0

for k in 1...n{
    loopSum = loopSum + k
}

let formulaSum = n*(n+1)/2

print("Hard work sum = \(loopSum), Formula sum = \(formulaSum)")
```

ONE

ON EPSILON

Push Ups, Sit Ups and Adding Numbers

November 17, 2016 Yoni Nazarathy



There are 45 days left until the end of 2016. Do you want to do something meaningful in that time? So many options come to mind. One possibility is to start a simple incremental core strength training program.

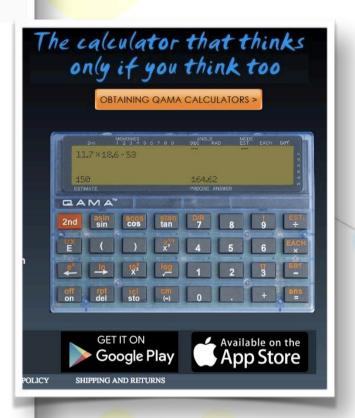


Is it true that $19 \times 21 = 20 \times 20$?

February 3, 2017 Yoni Nazarathy



I recently came across a neat product called the <u>QAMA Calculator</u>. It is a calculator that encourages thought. Ask it to calculate something and QAMA will ask you back: "First give me an estimate". Once you supply an approximate answer, QAMA calculates the precise answer for you. But only if your approximation was sensible. This calculator forces you to think.





Do Some Hailstones Fly Forever?

May 7, 2017 Yoni Nazarathy



How hard is it to grasp open problems in mathematics? Do you need to be an adult, a genius or a research mathematician to enjoy pondering such problems? Or can a curious young person be an investigator as well?

$$a_{n+1} = \begin{cases} a_n/2, & \text{if } a_n \text{ is even,} \\ 3a_n + 1, & \text{if } a_n \text{ is odd.} \end{cases}$$







How old are these lentils?

January 27, 2017 Yoni Nazarathy



Do you keep a jar of lentils? Lentils are those little lens-bean looking things that often mix so well with rice and other ingredients to make tasty and healthy meals. How old are the lentils in your jar?



All, None and Forever

July 7, 2017 Coco Bu and Yoni Nazarathy

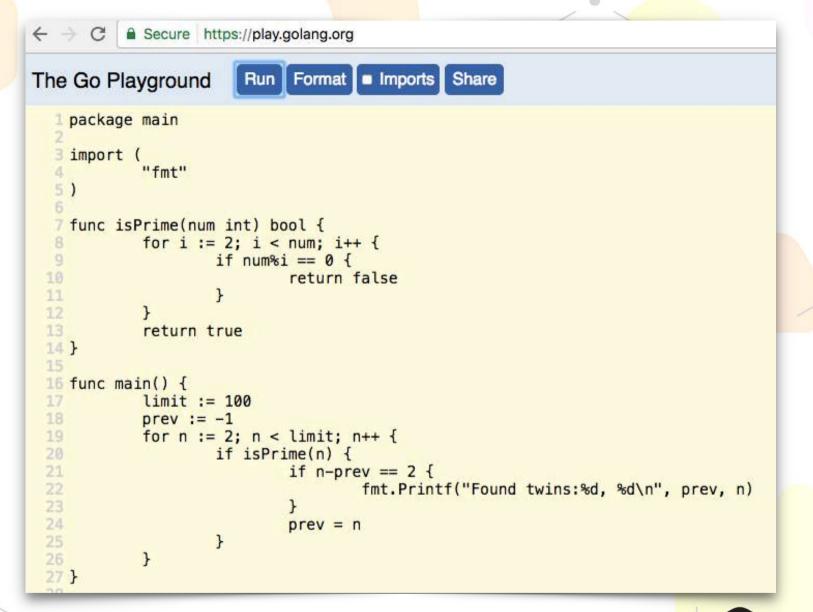


There is something very magical about unsolved mathematical problems, especially those that have been around for hundreds of years. Teachers at school don't have a solution for them and to date, the world's greatest mathematicians don't have solutions either. Some of these problems are quite intricate and require a lot of background to comprehend. But others, are very simple and crisp in their statement, even though solutions are currently not in reach.



```
Secure https://swift.sandbox.bluemix.net/#/repl
 1 v func isPrime(_ num: Int) -> Bool{
        var k = 2
        while k < num{
            if num % k == 0{
                return false
            k = k + 1
        return true
10
    let number = 31
    print("Checking \((number)) prime: \((isPrime(number))")
   let limit = 100
    var prev = -1
20 v for n in 2..imit{
        if isPrime(n){
            if n - prev == 2{
                print("Found twins: \(prev), \(n)")
            prev = n
27
```





Is i More Imaginary than -1?

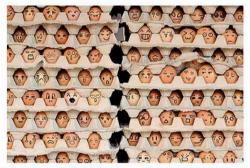
March 18, 2017 Inna Lukyanenko and Yoni Nazarathy



Is the number 5 imaginary? Look at the 5 fingers on your left hand. You

Are These Digits Random?

April 28, 2017 Yoni Nazarathy



Try chanting a list of random digits. For example, "3", "5", "2", "8" and so

Do you pay 99 cents or 1 dollar?

June 2, 2017 Coco Bu



It happens so often that we see price tags at shops with prices such as \$1.99 or \$36. opposed to \$2.00 or \$37.00. Such prices are designed to make us feel that we are pay bit less.

Inna and Yoni Choosing Pizza

Imagination for Math

June 24, 2017 Yousuf Marvi



I once told my students that simply having an imagination isn't enough to be a good mathematician— foremost, solid skills are needed. I wish I could take my words back. Even Einstein, who had a great mathematical skill, is noted as saying:

Seeking Patterns with Math

July 15, 2017 Yousuf Marvi and Phillip Isaac



Is math important to you? Is it because you make use of basic math facts in your daily life, such as when you go shopping or <u>walking down the street?</u> Sure, but some people use it for technical work in fields such as finance, engineering, chemistry and architecture, just to name a few. Pretty much every field has some math applications. Math can be an incredibly useful tool. Is it a mistake, however, for us to think of math as only being a tool? We believe it is so much more.

Neglect and Respect a Quarter of a Percent

June 17, 2017 Coco Bu and Yoni Nazarath



The other day Coco and Yoni caught up to discuss their journey with One on Epsilon. They started talking about mathematics, curiosity and education. Quite quickly they got onto the subject of children and teenagers. Yoni is the father of three children and Coco interacts with dozens of teenagers as a school teacher.

nenko and Yoni Nazarathy



Cut corners and save up to 29%

May 13, 2017 Yoni Nazarathy



"I don't cut corners", he announced proudly. "I do everything by the book!". "Good for

Choosing a Fair Estimate

May 27, 2017 Yousuf Mi



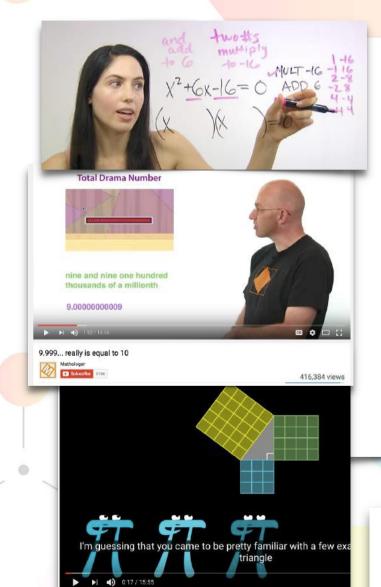
Is Love Squared More Love?

une 30, 2017 Youi Nazarath



I sometimes color adjectives, verbs or nouns with the suffix "squared". If something is very tasty, I'll say it is "tasty squared". If something is tough I'll call it "tough squared". Then with love, I do the same. I sometimes say "love squared". But thinking about it more, I ask, what does 'love squared' mean?

COMING SEP 15, 2017: EPSILON STREAM WATCH, PLAY AND EXPLORE MATHEMATICS



All possible pythagorean triples, visualized



E-stream



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Has your child mastered square roots? How about you?

re roots? How about you? Purchase this se Apple App Store. Your child will love





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Join us for Global Math Week, October 10 - 17, 2017





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