## TRINITY COLLEGE FOR WOMEN

## (ARTS\&SCIENCE)

## NAMAKKAL

(Permanently Affiliated to Periyar University,Salem,2(f) \& 12(b) status Granted by UGC- New Delhi and Accredited by NAAC A+ Grade)


WHYDO, WESYMBOLIZ THE NUMBERS LIKE 0-9?

DEPABTIMENTOFMRAYHYMATICS TRINGY COLLEGE FOR WOMEN NAMAKKAL-637,002.

2022-2023

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## MATH ART

Mathematics and art are related in a variety of ways. Mathematics has itself been described as an art motivated by beauty.
Mathematics can be discerned in arts such as music, dance, painting, architecture, sculpture, and textiles. This article focuses, however, on mathematics in the

## visual arts.

-Maths and Art are like a parallel track of train;if it's separate,it


Math is like a father; it always lifts you forever.

Math is like a water; It satisfies the thrust of your life.

Math is like a rain; It always refresh your brain.

Math is like a tree;
It has many roots.
Math is like a music;
You want to feel it, understand the frequency.
Math is like a Oxygen; Without math you can't survive. Math is like a sunlight; It makes your life to be bright. Math is like a Queen; It never let a women to fail.

## -S.Priyadharshini I-M.Sc Maths

## ABOLT Praths

## Meayou

Dear Love,
I may not be good with words, Because my English is not fluent, I express myself mathematically,

TRY,TRY AND TRY
The more I try,
The more I cry.
I practice you day and night
I gone away, when I fright I imagine you as my soul, Yet, I am not able to achieve my goal.

People say,
You are like a rainbow,have a treasure at end.
For me,
You are a subject, make me sick
But we made fun, if we stick
When the math class begins, I open my ears to hear the bell ring. Finally, If I were a king, You are my wife But, being a student You are my life.

எண்ணத்தால் ஆன எழுத்து
உண்மையில் இயங்கும் பூமி
கணிதத்தால் ஈன்ற மேதை
வடிவத்தால் உண்டான பாதை
சூத்திரத்தால் ஊன்ற காதை
தந்திரத்தால் எட்டிம் உயரம்
ஊடகங்களுக்கு ஏணியான
சிகரம்

இவை ஒன்று சேர்ந்து அமைவது கணிதம்!
-S.B.SABETHAA I-M.Sc Maths

## கவிதை வடிவில்....

-B.Vishalini
II-B.Sc Maths


What is Fibonacci sequence explain?

The Fibonacci sequence is a series of numbers in which each number is the sum of the two preceding numbers. The simplest Fibonacci sequence begins with 0,1 , $1,2,3,5,8,13,21$, and so on.

## Why Do So Many Natural

 Patterns Reflect the Fibonacci
## Sequence?

Scientists have pondered the question for centuries. In some cases, the correlation may just be coincidence. In other situations, the ratio exists because that particular growth pattern evolved as the most effective. In plants, this may mean maximum exposure for light-hungry leaves or maximized seed arrangement.

## How the Fibonacci Sequence Works in Nature?

You can commonly spot these by studying the manner in which various plants grow. Here are a few examples:

Seed Heads, Pine cones, Fruits and Vegetables,Storm, Honey bees, even in human body also.

Look at the array of seeds in the center of a sunflower and you'll notice they look like a golden spiral pattern.

DNA molecules follow this sequence, measuring 34 angstroms long and 21 angstroms wide for each full cycle of the double helix.

DO YOU KNOWLEDGE? We celebrate Fibonacci Day Nov. 23rd not just to honor the forgotten mathematical genius Leonardo Fibonacci, but also because when the date is written as 11/23, the four numbers form a Fibonacci sequence.

THE DIFFERENCE BETWEEN FIBONACCI SEQUENCE AND GOLDEN RARIO?

This set of infinite sums is known as the Fibonacci series or the Fibonacci sequence.

The ratio between the numbers in the Fibonacci sequence
( $1.6180339887498948482 . .$. ) is frequently called the golden ratio or golden number.

The ratio of successive Fibonacci numbers approach the golden ratio as the numbers approach infinity.

WHO AM I?
I am an odd number. Take away a letter and I become even. What number am I? Ans: Seven Can you write down eight eights so that they add up to one thousand?
Ans:888+88+8+8+8=1000.

# WHYDO, WE SYMBOLIZE NUMBERS LIKE O-9? 



1 angle


6 angles

2 angles


7 angles


3 angles


8 angles


4 angles

9 angles


5 angles

Zero Angel

WITHOUT MATHEMATICS, THERE'S
NOTHING YOU CAN DO. EVERYTHING AROUND YOU IS MATHEMATICS;
EVERYTHING AROUND YOU IS NUMBERS.
-SHAKUNTALA DEVI

## gUESTION BANE

1) The set $S=\left\{x \in R \mid x>0\right.$ and $\left.\left(1+x^{\wedge} 2\right) \tan (2 x)=x\right\}$ is (TIFR MATHEMATICS)
(a) empty
(b) nonempty but finite
(c) countably infinite
(d) uncountable
2) Let $G$ be a finite group and $o(G)$ denotes its order. Then which of the following statements is/are TRUE? (IIT-JAM MATHEMATICS)
(a) $G$ in abelian if $o(G)=p q$ where $p$ and $q$ are distinct primes.
(b) G is abelian if every non-identity element of $\mathbf{G}$ is of order 2.
(c) G is abelian if the quotient group $\mathrm{G} / \mathrm{z}(\mathrm{G})$ is cyclic, where $Z(G)$ is center of $G$.
(d) $G$ is abelian if $o(G)-p^{\wedge} 3$. where $p$ is prime.
3)Find all positive integer triplets ( $a, b, p$ ) for such that $a^{\wedge} p$ $=b!+p$, where $p$ is prime.(CSIR-NET MATHEMATICS)
(a)The only solutions $(2,2,2),(3,4,3)$ (b) $(4,6,1),(9,0,0)$
(c) infinitely many solutions $\quad$ (d) the solution at origin.
3) In the permutation group Sn ( n is greater than or equal to 5), if H is the smallest containing all the 3-cycles, then which one of the following is true? (GATE)
(a) Order of H is 2
(b) Index of H in Sn is 2
(c) H is abelian
(d) $\mathrm{H}=\mathrm{Sn}$

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