



# Beyond Infinity.....

## The Magical World Of Mathematics

YOU HAVE  
TO BE ODD  
TO BE NUMBER  
**ONE**

ALL YOU NEED IS

$$y = \frac{1}{x}$$



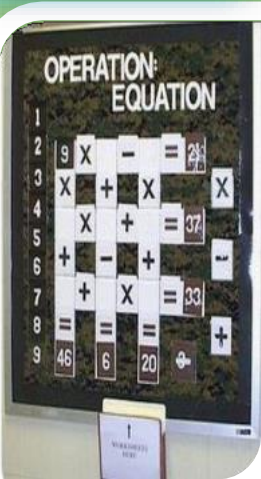
$$x^2 + y^2 = 9$$



$$y = |-2x|$$



$$x = -3|\sin y|$$



*“Mathematics is the handwriting on the human consciousness of the very spirit of life itself*

*Claude Bragdon*

*Dear Parent,*

*Pedagogy has undergone various transformations in order to ensure that education adapts itself to the demands of the contemporary period.*

*The reign of Mathematics, as a field, stretches beyond the*

*realm of arithmetic and theoretical topology to which it had been previously confined. Galileo had asserted, “Mathematics is the language with which God wrote the universe”. Be it the logistics of quantum mechanics or the statistical implications of the COVID-19 pandemic, everything can be studied through the analytical lens of this purposeful branch of science.*

*We believe that it is essential for our learners to gauge the diverse range of life, molded and influenced by the study of mathematics, understand its implications and explore the future potential entailed by it. We take immense pride in launching this newsletter, which has thrived on our students’ capacity to look beyond the stratified dimensions and accomplish the impossible.*

*Best Wishes!’*

*Suruchi Gandhi*  
*(Principal)*



$\sqrt{-1}$   $2^3$   $\Sigma$   $\pi$   
...and it was delicious!

# Predicting Covid from the eyes of a Mathematician

By-Dr Dinesh Singh, Ex vicechancellor,

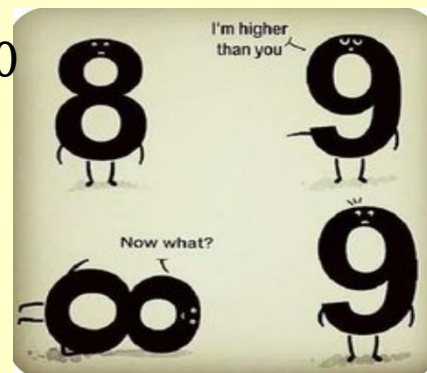


A webinar was organized by Shoolini University, in which students of classes XI and XII were guided on how to deal with the stress and anxiety caused due to corona virus.

The speaker, Prof. Dinesh Singh, Ex Vice chancellor of Delhi University, used mathematical and statistical models to encourage and motivate students during this pandemic.



## Career opportunities in Mathematics





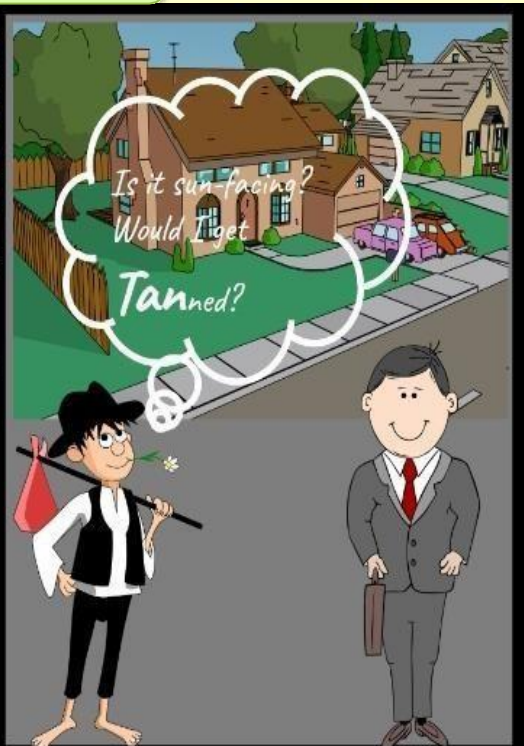
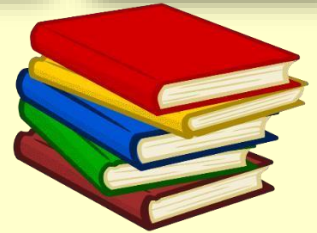
# Playing with shapes

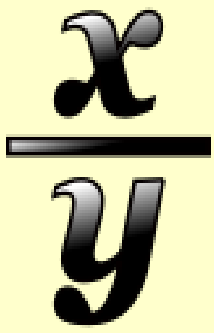
The little Bal Bharatians, engaged in making book marks of different shapes in the online Maths class.



## Fun on the run

By- Bhavnoor singh

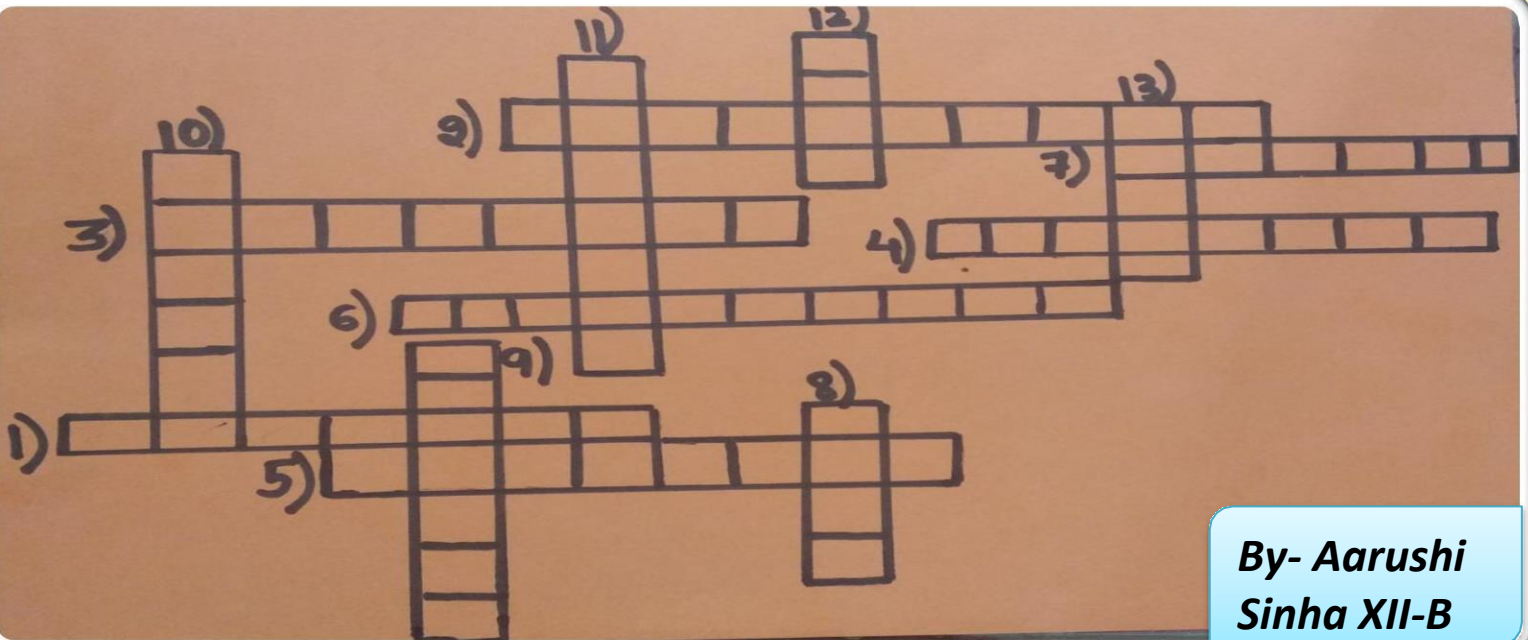




# MATHE MAGICA



*Read the clues and solve the crossword*



*By- Aarushi  
Sinha XII-B*

## ACROSS

- 1) Polygon with 10 sides
- 2) A monomial or sum of monomials
- 3) Another name of y-coordinate
- 4) Polygon with 5 sides
- 5) A relation where each value of x gives a unique value of y
- 6) The longest side of a right triangle
- 7) Locus of points equidistant from a given fixed point

## DOWN

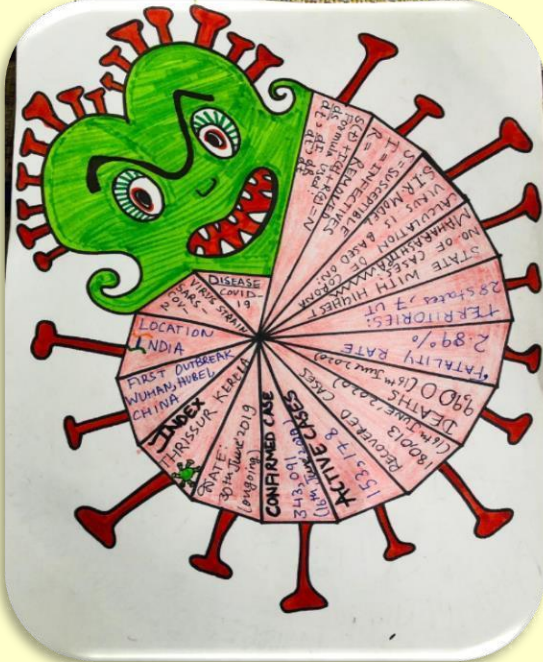
- 8) Data that occurs most frequently in a data sheet
- 9) Polygon that is both equilateral and equiangular
- 10) In a right triangle, the ratio of base to hypotenuse is called \_\_\_\_\_
- 11) Polygon with 9 sides
- 12) A type of diagram showing relationship among sets
- 13) An angle whose measure is less than 90 degrees

*Like the crests on the head of a peacock,  
mathematics is the head of all sciences*





# Corona - A Mathematical Phenomenon



Coronavirus has changed how we work, play and learn. Schools are closed, sports leagues have been cancelled and many people have been asked to work from home. This is the golden time for us to enhance our skills and to develop new interests. This is what I have done. Maths has helped us a lot in understanding the trend of corona cases in India. "The increase in the number of Coronavirus cases in India is similar to the manner in which the hypotenuse's value increases in the spiral."

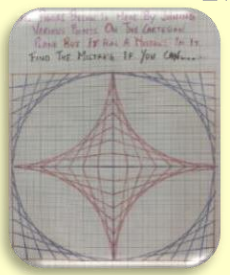
By Prajna Gaur XIA



## MATHOPHILIA - Mind Mapping

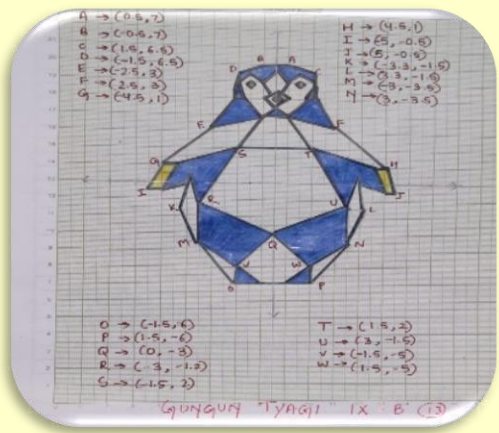


*"MATHeMATICiANS ARE born not MADE"*



TICKLE YOUR BRAIN CELLS

ANSWER ON PAGE 7



1. I was 5 years old in 1992. How many years old would I be in the year 1985?
2. I am a number. If you add 1 to me, I become 9. But I am not 8. People often call me "the unknown". Who am I?
3. I take two decks of cards. And remove some cards out of them. If two people play the cards, 1 card remains. If three people play the cards, even then 1 card remains. If five people play the cards, 1 card remains. Seven people can completely distribute the cards among themselves. How many 'A's are remaining, if the sum of the digits of the number of cards I removed, is the number of 'A's I removed?

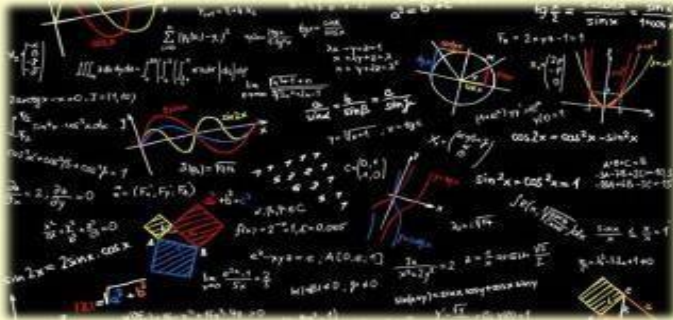
By-Bharat Luthra XC



# Operation Equation



## What are Mathematical Equations?



Mathematics has got a lot of fascinating material in its infinitely big bag of knowledge. The most explored and used of which are 'Mathematical Equations'. Graph being the canvas, those forever unknown variables i.e.  $x, y$  and  $z$  can do wonders. The domain of these tiny yet marvellous equations, when set in range on the 2D or 3D Graphs, can make tonnes of admirable images, objects and 3D structures.

## What are the uses of Mathematical Equations?

- Vector Letters and Pictures



Have you ever tried to zoom in a pdf file/images or a MS word file? What makes it different from raster jpeg or a png file? Again, these equations pitch in to make a world of difference. Vector images and Letters are made up of mathematical calculations, derived from Mathematical Equations from one point to another that form lines and shapes. In simple words, one can say that just because of the flexibility of these equations, the alphabetical letters are constructed. This is the reason why if you zoom into a pdf file or a vector graphic image, it will always look the same and would not lose its pixels because, it never had any!

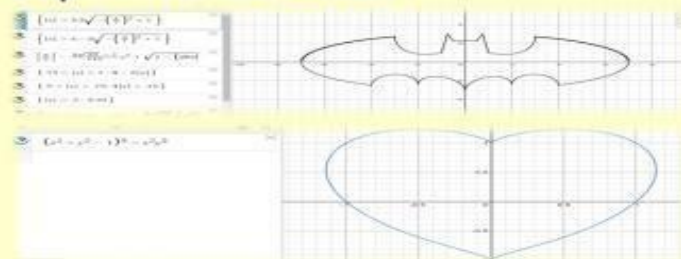
## 3D Printing



Ever wondered about the precision and accuracy of the 'Bob-The Builder' of the near future? Yes, 3D printers sometimes too work with these mighty Equations.

The over-particular alignment of these three variables ( $x, y, z$ ) are thereby the textbooks of these new learners which mug-up the equations and lead to the creation of perfect stuff, potentially ready to be a vital part of our daily life. Some of which are switches, souvenirs, drones as well as Houses!

## Graph- A Technical Canvas!



The potential capability of these mesmerising Mathematical Equations quodidnarily fascinated the mathematicians since the evolution of maths. From the daily life simple problems to understanding complex shapes i.e. ellipse, infinity loop, circles to fun shapes of the graphs, mathematics never failed to impress mankind with its profound and flexible logic. The given pictures are the perfect example to site for the same. The world-famous Batman logo drawn from the use of these variables shows the power of these mind-blowing Equations. Henceforth, Mathematical Equations can be coined as the bridge which connects the human brain with a machine much more easily and efficiently to further enhance our technology.

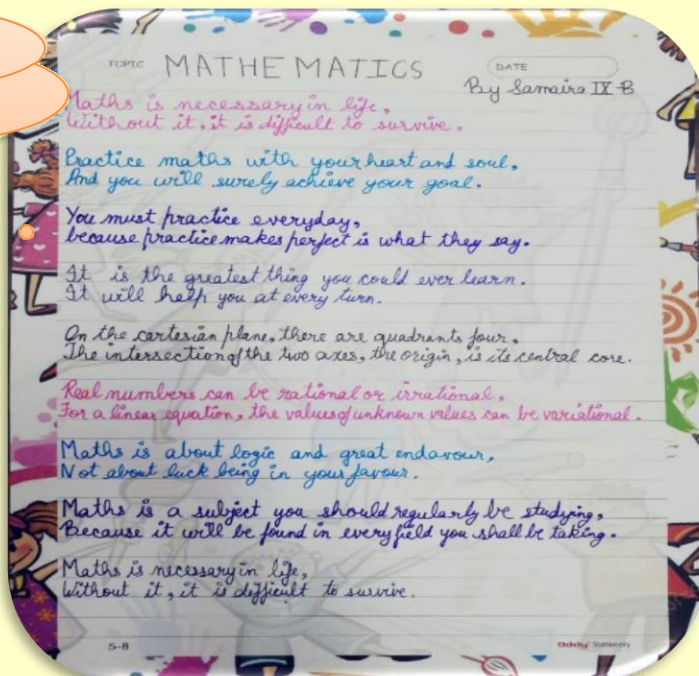
Aaryan Suryan (XII-B)

Poesia.....

From the pens of Bal Bharatians

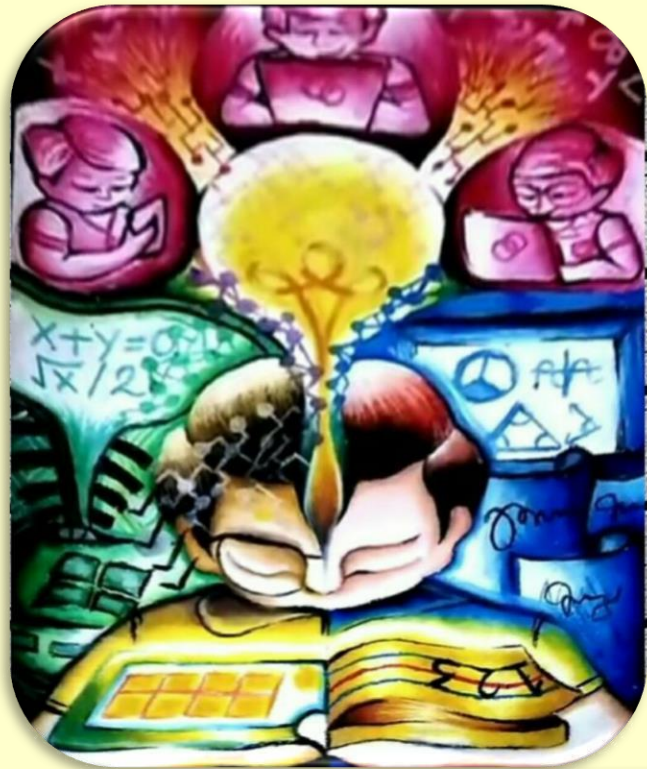


Mathematics is full of fun  
With so much to learn  
Profits are added  
While losses are subtracted  
Degrees are multiplied  
And percentage is divided  
Geometry is full of mystery  
Algebra has a big history  
Integers as different as brothers  
Lines are Parallel.  
Angles are similar  
Maths is necessary in life.  
Without it, it is difficult to survive.





Maths was not so fun  
 Till I began it to learn  
 The parabolas taught the situation of life  
 Dealing with equations  
 Was a very big question  
 Then came x and y puzzle  
 Which was so difficult to juggle?  
 This made life so dull  
 And soon nothing got in the skull  
 Now the exams were near  
 And I was so full with fear  
 The day came!  
 It was filled with hustle  
 Which created so much trouble?  
 Alas! I won the battle of failure  
 With a drastic change in my behavior  
 Now I loved maths more  
 With the will to learn forever more



By- Priyanshu Kumar X-D

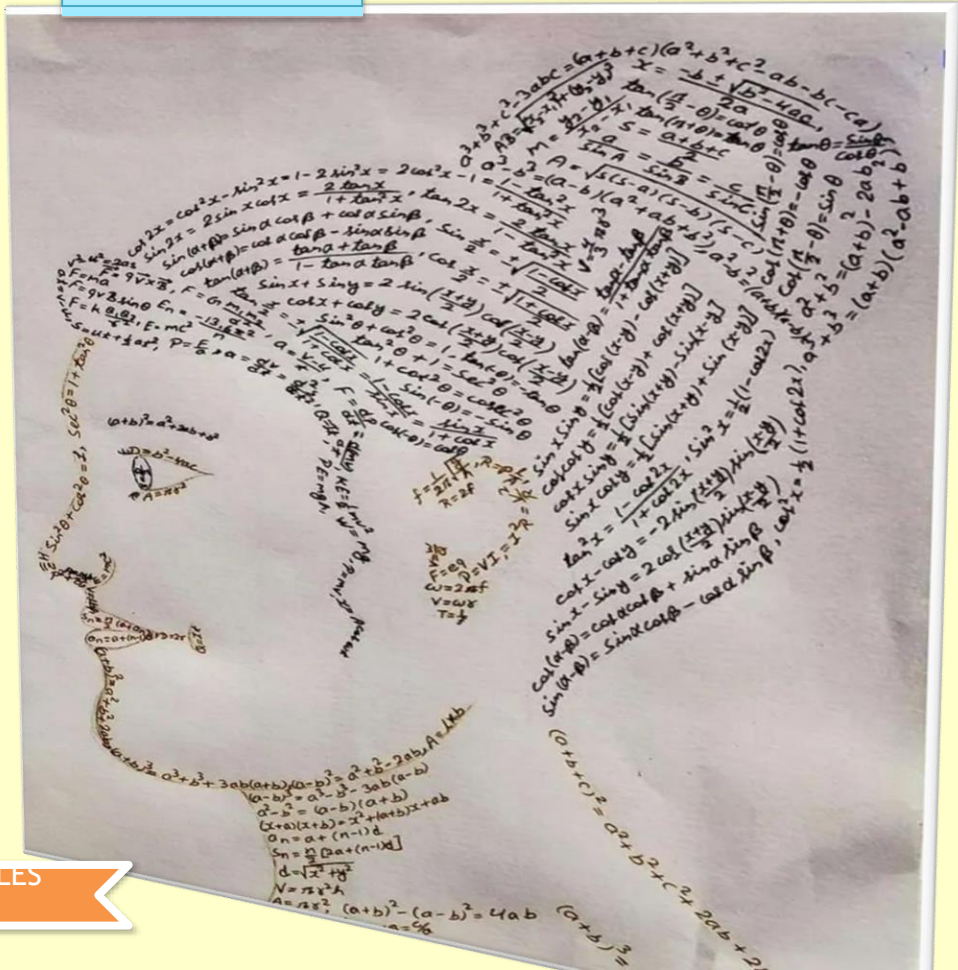
By- Manya Singh X-D

THE  
 BEACON  
 OF BEAUTY  
 Can you read  
 my face?

- 1) 12 years old; age cannot be negative. Hence, I was 5 years old in 1992 B.C.
- 2) 10 (X); add 1 (to the left)—IX;
- 3) 4 'A's are



ANSWERS OF RIDDLES



# THE BEST THING ABOUT SCHOOL THIS YEAR



Respected Ma'am

I'm just sending across a quick note for Digital class room initiative taken by the school . The year started off a little bumpy. Thank you for your hard work in supporting my son. Your patience and commitment in supporting my child means a lot to me.

We appreciate your hard work and the Efforts put in by you to groom little kids. Thank you for providing a safe and welcoming environment.

Ankita Verma

M/o Krishav Verma

I am greatly thankful to the school for providing the students an opportunity to continue with their learning.

The teachers are making great efforts to keep the lessons interesting and engaging. It has also provided an opportunity for the students to learn a new and innovative style of teaching

Shilpa Sharma

M/o Anunya Sharma

Dear Principal ma'am,

We are really blessed to be a part of BBPS family. The initiative taken by you to keep the children at par with the syllabus via technology has proved to be very helpful. The teachers have eased out the lesson plans & the delivery is very smooth.

Belonging to the same fraternity, I really understand the amount of work you all must have put in.

Hats off to the mentors & kudos to the team

Happy parent!

Looking forward for an excellent learning ahead

Ms. Aparna Jha

M/o Adwait Jha

I would like to express my sincere gratitude to the team leader of Bal Bharati Public School Dwarka, who has emerged out as a ray of sunshine for all the parents. Her efforts in motivating the teachers to take online classes, for which , may be the teachers were not well prepared and at the same time, guiding and inspiring all the students to take the online classes, seriously, are remarkable. Everything had stopped in this corona era except the teaching!! Right from day one, be it the classes, exams, online study material, online library, online co-curricular activities, online participation in activities, nothing stopped at BBPS, under your able leadership.

My best wishes to the school teachers, students and of course, Madam Suruchi Gandhi, for taking such good initiatives and channelising our children's energies in a positive side during this time of stress.

Abhishek Gupta

F/o Khanak Gupta

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