

UNREVEALING

THE SECRETS OF

MATHEMATICS



VIII-B

CIRS PRODUCTIONS

DID U KNOW ?

STUDENTS
WHO CHEW
GUM HAVE
BETTER MATH
TEST SCORES
THAN THOSE
WHO DON'T

SPECIAL NUMBERS

RAMANUJAN NUMBER

1729 is the Hardy–Ramanujan number after a famous anecdote of the British mathematician G. H. Hardy regarding a visit to the hospital to see the Indian mathematician Srinivasa Ramanujan.

It can be represented in two different ways : $1729 = 13 + 123 = 93 + 103$

VAMPIRE NUMBER

A vampire number is a composite natural number v , with an even number of digits n , that can be factored into two integers x and y each with $n/2$ digits and not both with trailing zeroes, where v contains precisely all the digits from x and from y , in any order, counting multiplicity. x and y are called the fangs.

The 7 vampires with 4 digits are $1260=21 \times 60$, $1395=15 \times 93$, $1435=35 \times 41$, $1530=30 \times 51$, $1827=21 \times 87$, $2187=27 \times 81$, $6880=80 \times 86$

HARSHAD / NIVEN NUMBER:

A number that is divisible by the sum of its own digits. For example, 2620 is a Harshad number because $2+6+2+0=10$ and $2620=10 \times 262$.

Generally, a Harshad number, in a given number base, is an integer that is divisible by the sum of its digits when written in that base. Ex. 2924

ARMSTRONG NUMBER

153 is an Armstrong number because $153=1^3+5^3+3^3$. Some other Armstrong numbers are 370, 371, 407.

ZERO
(0)
IS THE ONLY
NUMBER THAT
CANNOT
BE
REPRESENTED
BY
ROMAN
NUMERALS



**GO DOWN DEEP INTO ANYTHING, YOU WILL FIND
MATHEMATICS.**

DID YOU KNOW ?

The largest prime number ever found is more than 22 million digits long.

RIDDLES

ANSWERS
1. 3
2. your name
3. a rooster doesn't lay eggs
4. seven
5. Envelope

Q1. If there are four apples in a basket and you take away three, how many do you have?

Q2. What belongs to you but other people use it more than you?

Q3. If a rooster laid 13 eggs and the farmer took eight of them and then another rooster laid 12 eggs and four of them were rotten, how many of the eggs were left?

Q4. I am an odd number; take away an alphabet and I become even. What number am I?

Q5. What starts with an E, ends with an E and usually contains only one letter?

THE NUMBER - 108



The Indian Subcontinent rosary or set of mantra counting has 108 beads. 108 has been a sacred number in the Indian Subcontinent for a very long time. Sun and Earth: The diameter of the sun is 108 times the diameter of the Earth. 1, 0, and 8: 1 stands for God or higher Truth, 0 stands for emptiness or completeness in spiritual practice, and 8 stands for infinity or eternity. Dance: There are 108 forms of dance in the Indian traditions. Powers of 1, 2, and 3 in math: 1 to 1st power=1; 2 to 2nd power=4 (2x2); 3 to 3rd power=27 (3x3x3). $1 \times 4 \times 27 = 108$

MATH DOESN'T TEACH US ONLY HOW TO ADD LOVE OR SUBTRACT HATE, IT GIVES US A SOLUTION TO EVERY PROBLEM

MATH

Math is very interesting ,
sometimes it's very confusing .
It is very easy,
But it can also make u go
crazy.

We use Math in our day to day
life,
it helps us to cut a pizza with a
knife.

It helps us to estimate,
and build a well-mannered gate

math is everywhere,
it can help us become a
millionaire.

It won't make u a loser,
rather it will make u a winner.

If we study math we can
become great,
if we don't we may regret.
So enjoy math in life,
with which u can survive.

-SOWRIS & ABHINAND

MATH

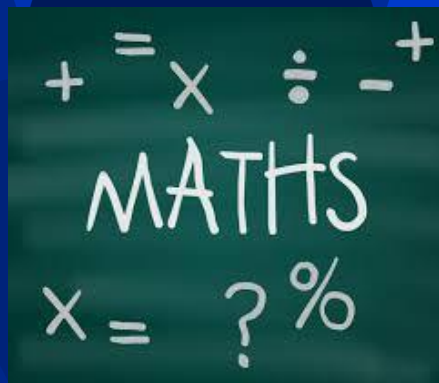
Algebra, Trigonometry and
Algorithm,
All of them have a certain rhythm.
Math is that rhythm so beautiful,
Answers to questions are beautiful.

Math helps us to find if Jill is tall,
Or even calculate the size of a
mall.

Math helps us to divide a pizza,
Even draw the Mona Lisa.

From Math every core,
To its heights 8-B soars.
In Math 8-B is now a believer,
All thanks to our wonderful
teacher.

- SUNDARESH



MATH IN NATURE

Math is found in nature,
finding it's glory in a
pleasure.
{+/,*,-}tion,
It is not at all a confusion.

Math is found in physics,
and extends up to vedics.
Math is found in time
and capture crimes.

Math is always with
solution,
and even calculates
pollution.

Algebra is with
simplification,
but doesn't have
complication.

Math is found everywhere,
without it you will be
nowhere.

Try to find interest,
with it you will do the best

-MAANASA & NEHA

**ANYONE WHO HAS NEVER MADE A MISTAKE HAS NEVER TRIED
ANYTHING NEW- ALBERT EINSTEIN**

MATH -BEST THING TO LEARN

It's a very good thing to learn,
Which will help you at every turn.
I prefer to solve a perfect Trinomial ,
Then work on an editorial.
Profits are added,
While losses are subtracted.
Decimals are estimated,
While symmetry is divided.
Algebra is expounded
And not to forget,
All these are Numerated!
Math is necessary in life
Without it, its difficult to survive!
Mathematics is full of fun
With so much to learn!

-SHRUTHI & AKSHITHA

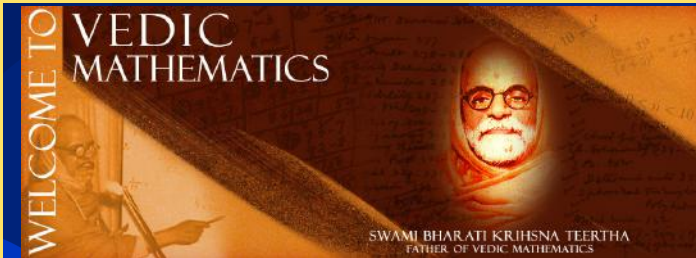
MATH THE BEST SUBJECT

Math is an amazing subject,
which can be observed through objects.
Objects helps us to understand well,
which helps us to score like a bell.

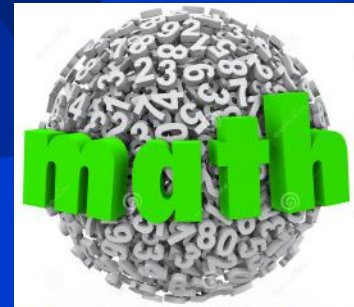
It helps us in our daily motion,
which helps us to do estimation.
It has four kinds of formulae,
which are +, x, /, -.

Math helps us in everything we do,
because it makes people on to.
It is an interesting subject,
which nobody can forget

-NAMAN GUPTA

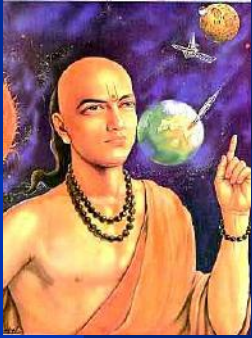


Vedic Mathematics is a book written by the Indian Hindu priest Bharati Krishna Tirthaji and first published in 1965. It contains a list of mental calculation techniques claimed to be based on the Vedas.



**MATHEMATICS IS THE LANGUAGE WITH WHICH GOD WROTE THE
UNIVERSE- GALILEO**

ARYABHATTA



He was the first to calculate the value for 'pi' accurately to the fourth decimal point. He devised the formula for calculating areas of triangles and circles. He calculated the circumference of the earth as 62,832 miles, which is an excellent approximation, and suggested that the apparent rotation of the heavens was due to the axial rotation of the earth on its axis.



BRAHMA GUPTA

Brahmagupta established the basic mathematical rules for dealing with zero ($1 + 0 = 1$; $1 - 0 = 1$; and $1 \times 0 = 0$), in 7th century bc

S. RAMANUJAN



Srinivasa Ramanujan was an Indian mathematician. Though he had almost no formal training in pure mathematics, he made major contributions to mathematical analysis, number theory, infinite series, and continued fractions. Ramanujan initially developed his own mathematical research in isolation. When his skills became obvious and known to the wider mathematical community, centred in Europe at the time, he began a partnership with the English mathematician G. H. Hardy. The Cambridge professor realized that Ramanujan had produced new theorems in addition to rediscovering previously known ones.

THE WORD
"MATHEMATICS"
COMES FROM THE
GREEK WORD
MATHEMA
WHICH MEANS
LEARNING
STUDY
SCIENCE

2,520 IS THE
SMALLEST
NUMBER THAT
CAN BE EXACTLY
DIVIDED BY ALL
THE NUMBERS 1
TO 10.

WHAT WE KNOW IS A DROP, WHAT WE DON'T KNOW IS AN OCEAN.-ISAAC NEWTON

$$1682 \times 5$$

1) divide by 2 $1682 \div 2$

$$= 841$$

2) tack on a "0" 8410

answer: 8410

EASY WAY OF

DOING

MENTAL MATH

DID U
KNOW ?

To multiply any number by 11, add the sum of its digits and then insert it between your original numbers. "To work out 53 times 11, you'd add five plus three, so the answer is 583."

$$65^2$$

1) take 1st digit

$$65$$

2) multiply by next highest number

$$6 \times 7 = 42$$

3) tack "25" on the end

$$4225$$

answer: 4225

$$43 \times 11$$

1) number

$$43$$

2) add

$$4 + 3$$

3) stick it in the middle

$$= 7$$
$$473$$

answer:

$$473$$

MATHEMATICIAN PAUL ERDOS COULD CALCULATE IN HIS HEAD, GIVEN A PERSONS AGE ,HOW MANY SECONDS THEY HAVE LIVED,WHEN HE WAS JUST 4 YEARS OLD

PURE MATHEMATICS IS IN IT'S WAY, THE POETRY OF LOGICAL IDEAS.-ALBERT EINSTEIN

TO ME MATH IS ALL ABOUT





MATH

The only place where people buy 64 watermelons and no one wonders why...

DESPICABLEMEMINIIONS.ORG

Parallel lines

have so much in common...



it's a shame that they'll never meet.

The Romans didn't find algebra very challenging, because X was always 10.

$$\text{Life} + \cancel{\text{Love}} = \text{Happy}$$

$$\text{Life} - \cancel{\text{Love}} = \text{Sad}$$

$$2\text{Life} = \text{Happy} + \text{Sad}$$

$$\therefore \text{Life} = \frac{\text{Happy} + \text{Sad}}{2}$$

$$\therefore \text{Life} = \frac{1}{2} \text{Happy} + \frac{1}{2} \text{Sad}$$

That's Real Life ENJOY it.

FUNNY
MATH
JOKES

calculator.



why not
calcu
now?

Relatable Post #4591

There are 187,611,145,4239 people who are so lazy that they didn't even read that number.

YOU HAVE
TO BE ODD
TO BE NUMBER
ONE

Problem:

Find x.

$$x^2 + 5x - 6 = 0$$

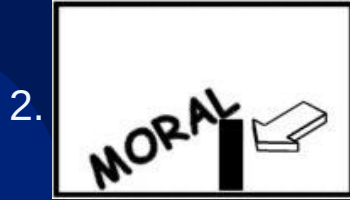
Solution:

Here it is.

PUZZLES!!!

REBUS

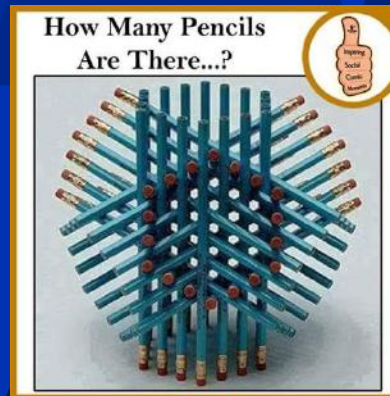
It is a puzzle in which words are represented by combinations of pictures and individual letters



LOGICAL THINKING

IF ...,

$$X + Y = 200$$
$$X - Y = 100$$
$$X \div Y = ?$$



LATERAL THINKING

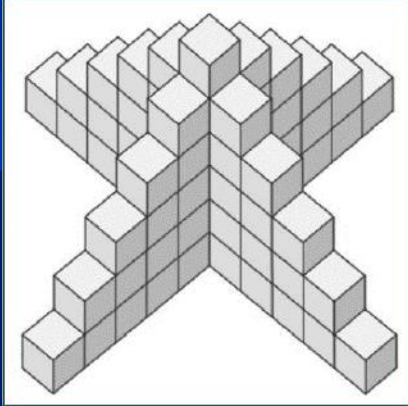
1. A police officer saw a truck driver clearly going the wrong way down a one-way street, but did not try to stop him. why?

2. A black man dressed all in black, wearing a black mask, stands at a crossroads in a totally black-painted town. All of the streetlights in town are broken. There is no moon. A black-painted car without headlights drives straight toward him, but turns in time and doesn't hit him. Why?

WE CANNOT SOLVE OUR PROBLEMS WITH THE SAME THINKING WE USED WHEN WE CREATED THEM

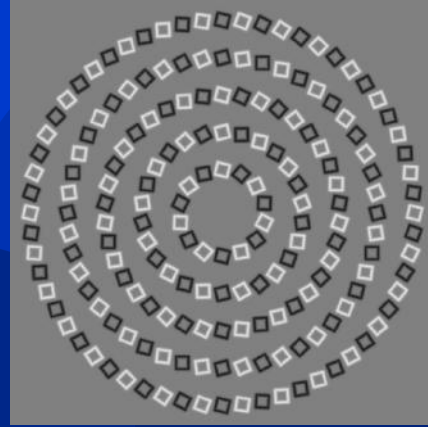
APTITUDE PUZZLE

1. Can you solve the block counting puzzle by counting the number of blocks in the picture below ?



OPTICAL ILLUSIONS

2. How many circles can you see in the image below.



Answers:
1. 66: Each arm has 15 blocks and there are four arms
2. There are exactly four circles



Editorial Team:-

- Srijan Garodia
- Ansh Patel
- Naman Gupta
- Dev Kalaria



8B TEAM