

# Narahari's Spelling and Math GURUCOOL

*STRIVING TOWARDS*

*Excellence in SPELLING, Excellence in MATH*

## June 2012 Math Gurucool Newsletter

Dear Students,

Hope you have great plans for this summer.

While enjoying is a lot of fun, math can be a lot of fun too!

At Math Gurucool, here is how we will form the student categories.

1. Junior division consists of students from Grade 1 to 3.
2. Middle division consists of students from Grade 4 to 5.
3. Senior division consists of students from Grade 6 to 8.

**Problem worksheets and lessons for each division have been provided in separate documents.**

**Solutions to the problems will be sent to you in two weeks.**

Did you know?

Mathematics originated from a Greek word. It is the study of quantity, structure, space and change

Math GURUCOOL Quiz question: **What is the largest number you can make using these digits: 2, 0, 3, 4?**

# Narahari's Spelling and Math GURUCOOL

*STRIVING TOWARDS*

*Excellence in SPELLING. Excellence in MATH*

**Lessons for grades 1-3 include basic arithmetic (addition and subtraction) and word problems.**

**Problem of the month: (Grades 1-3)**

In Mathville, there are 9 detectives. 3 of the detectives leave Mathville and go to Mathopolis. How many detectives are in Mathville now?

**Lessons for grades 4-5 cover prime factorization.**

**Problem of the month: (Grades 4-5)**

How many prime numbers are square numbers, assuming 1 is neither prime nor composite?

**Lessons for grades 6-8 are about factorials.**

**Problem of the month: (Grades 6-8)**

If  $\binom{n}{k}$  means  $\frac{n!}{(n-k)!(k)!}$  what is  $\binom{2}{1}$ ?



**Math GURUCOOL Quiz question: John has 2 kids, Joe & Jimmy. Each of their ages is a prime number and the sum of the ages is 40. How old is John?**

## NSM GURUCOOL

Coaching and guidance by  
Narahari Bharadwaj in Math, Spelling

### History of Mathematics

#### A Look at the Classic Mathematicians: Srinivasa Ramanujam:

- Ramanujam was born on December 22, 1887 in Erode, a city near Madras, India.
- Ramanujam is considered by many to be one of the world's greatest mathematicians.
- One of his major discoveries is related to partitioning numbers by splitting numbers into smaller numbers.
- For example, 4 can be written in 5 different ways:
- $4 = 3+1 = 2+2 = 2+1+1 = 1+1+1+1$
- Thus, we say that 4 has 5 partitions.
- Ramanujam created formulas that can reveal the number of partitions for a given number.



On December 6, 1917, he was elected to the **London Mathematical Society**.

In 1918, he became a **Fellow of the Royal Society**, and he was the **youngest Fellow in the entire history of the Royal Society**.

On October 13, 1918, he became **the first Indian** to be declared a **Fellow of Trinity College in Cambridge**.

Thanks,

NSM Gurucool

*Math.gurucool@yahoo.com for Math coaching*

*Spell.gurucool@yahoo.com for Spelling coaching*