

PROBLEM SOVING

Manya M., 5th Grade

a	b		c	d	
	e	f		g	h
i		j	k		
l	m		n	p	
	q	r		s	t
		u			

- | | |
|------------------|--------------------|
| a. $28 + 38$ | l. $96 - 65$ |
| b. 11×6 | m. $1000 \div 100$ |
| c. $100 - 76$ | n. $49 + 37$ |
| d. $84 \div 2$ | p. 6×10 |
| e. $52 + 16$ | q. $59 - 52$ |
| f. 4×21 | r. $432 \div 6$ |
| g. $38 - 18$ | s. $3 + 5$ |
| h. $64 \div 8$ | t. 14×6 |
| i. $156 \div 12$ | u. $77 - 54$ |
| j. $27 + 15$ | |
| k. 4×7 | |

In the next issue >>>

Good Infrastructure
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Heaven on Earth

MY CITY MY WAY

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In this issue >>>

Excellence =
Knowing how to do math
+
Knowing what math does

MATHEMATICS

Issue
THREE

Do not worry about your problems with mathematics, I assure you mine are far greater. - Albert Einstein

20 October 2014

Weekly dose of positivity and inspiration

I AM WOW!



Current issue - MATHEMATICS >>>



MATH IN A NORMAL DAY

We see math every day, it's impossible to live without math! How much ever you may detest the subject, we actually use math every second. Here is a real life scenario!!!

You wake up by switching off the alarm clock that reads the time! Time... includes math! So, you are influenced by math, as soon as you wake up. Then you take a bath and eat your breakfast. You are then ready to go school by car or bus. Cars and buses use speedometers. For example, 70 kilometers per hour. Why only the speed, even the car names have numbers, e.g.: Alto 800!!! ☺☺☺

At school, you might talk about sports, here we use math to calculate the scores...in every sport that is. In a boring class, wouldn't you ask for the time? I am sure you do that quite a lot! Just realized uh? That's math again!!! Once home, your favorite T.V show, programmed at certain timings, again math. You think of how much time you are going to spend in watching the program...Oh yes! Mathematics is definitely used there. Finally, when you go to bed, you set the timer and sleep until it goes off again.

HENCE PROVED: MATH IS A PART AND PARCEL OF YOUR DAILY LIFE!!! ☺

Yeshwant D, 7th Grade

MATHOLOGICAL FUN

$\pi = 3.1415926535897932384626433832795028841$
971939937510582097494459230781640628620899
8628034825342117067982148086513282314592435
7676485678936758451551091045564855481105445
517896365478471236545878934455546523555985
23075054481528490287947213

Isoperimetric Theorem

Among all planar shapes with the same perimeter the circle has the largest area.

Aditya R, 5th Grade

If a pair of socks has been marked down by 40% from its original value, which was Rs.6.95, what is the new price?

- | | |
|------------|-------------|
| a) Rs.4.17 | b) Rs.2.75 |
| c) Rs.2.78 | d) Rs.17.35 |

Ananya R., 9th Grade

Gotcha!

1. Two trains, 200 km apart, are moving toward each other at the speed of 50 km/hour each. A fly takes off from one train flying straight toward the other at the speed of 75 km/hour. Having reached the other train, the fly bounces off and flies back to the first train. The fly repeats the trip until the trains collide and the bug is squashed. **What distance has the fly traveled until its death?** There is a complicated and an easy way to calculate this cool math puzzle. HINT: (Think outside the box.)

2. There was a great Mathematician, Diophantus, known as the father of algebra. Diophantus' youth lasted $\frac{1}{6}$ th of his life. He had his first beard in the next $\frac{1}{12}$ th of his life. At the end of the following $\frac{1}{7}$ th of his life Diophantus got married. Five years from then his son was born. His son lived exactly $\frac{1}{2}$ of Diophantus's life. Diophantus died 4 years after the death of his son. **How long did Diophantus live?**

Ananya R, 9th Grade

FOR YOUR INFORMATION

Ananth P. Ashok, 5th Grade

NUMERALS	ENGLISH	TAMIL	HINDI	FRENCH	ROMAN
1	ONE	ஒன்று	एक	UN	I
2	TWO	இரண்டு	दो	DEUX	II
3	THREE	மூன்று	तीन	TROIS	III
4	FOUR	நான்கு	चार	QUATRE	IV
5	FIVE	ஐந்து	पांच	CINQ	V
6	SIX	ஆறு	छः	SIX	VI
7	SEVEN	ஏழு	सात	SEPT	VII
8	EIGHT	எட்டு	आठ	HUIT	VIII
9	NINE	ஒன்பது	नौ	NEUF	IX
10	TEN	பத்து	दस	DIX	X

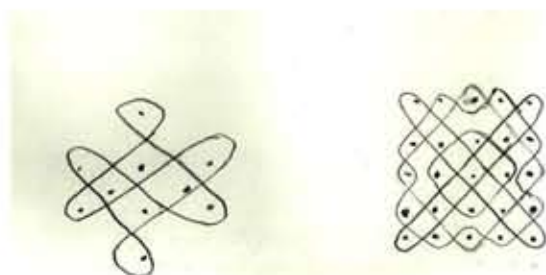
Brain teasers

- Think of any number from one to nine.
- Multiply it by three.
- Add two.
- Minus two.
- Divide it by three.
- Multiply it by nine.
- Add the sum of digits.
- Add four.
- Minus two.
- Add four.
- Your answer is fifteen.

Ananth P. Ashok, 5th Grade

COUNT THE DOTS

Ambika B, 5th Grade



Mathematics in Black & White



Mathematics is used extensively in many subjects. A good knowledge of Maths is a foundation for understanding concepts especially in music. In the beat of a rhythm, math is used to find out how many CROTCHETS (notes which must be played for one count) make a BREVE [a note which should be played for 8 counts]. To find the ratio between a crotchet and a quasi {quasi²*2*2*2*2*2*2=crotchet} or to find out that 128 quasi make a crotchet, calculations are used. The time values of the notes form a mathematical pattern. We use mathematics in the time signature (number of beats in a rhythm - numerator; time value for each beat - denominator). In the common time signature (4/4), there are four beats in one measure (many measures make a song). Each beat is a crotchet. We need to use mathematics even to calculate the speed of the tempo [especially while making a metronome {a timer} or a rhythm in the keyboard]. For example: 120 tempo and 270 tempo are in the ratio of 120:270 (or) 4:9. To make this ratio perfect, both the manufacturer (of the timer) and the music player must know mathematics.

Therefore, a good knowledge of mathematics is a foundation for learning about music, and many other concepts.

Tejas, 5th Grade

Difficulty: Medium

		9		7	
9	4	3	7	5	1
	7			8	3
7	2				6
2		7	6		8
3			8		9
6	1			3	
7		4	8	2	5
4		6			

HOW TO PLAY
Each row must contain the numbers 1 to 9; each column must contain the numbers 1 to 9; and each set of 3 by 3 boxes must contain the numbers 1 to 9.

It might look like this:

1	9	4	7	6	8	2	5	3
2	6	7	9	3	5	8	4	1
3	8	5	2	1	4	6	7	9
6	7	9	4	5	1	3	8	2
4	3	8	6	7	2	9	1	5
5	2	1	8	9	3	7	6	4
9	1	6	3	4	7	5	2	8
7	5	2	1	8	9	4	3	6
8	4	3	5	2	6	1	9	7

NOTE: THIS IS NOT THE ANSWER!!!

Ananya R, 9th Grade

A DAY WITHOUT MATH

There was a boy named Rohan. He did not like mathematics. One day, Rohan was doing his math homework. He got bored. He prayed to god to take out all the numbers from his life. God heard his wish and granted it.

He was very happy at first, but the joy didn't last for long... he was not able to do anything. One day Rohan had to attend his friend's birthday party. He saw the digital clock to get ready for the party, but saw no numbers. Rohan's mother had gone to the market, he wanted to contact her. He unlocks his phone, but saw that there were no numbers. So, he finally prayed to god to give all the numbers back. God granted his wish. From that day on, he came to know that we cannot live without math even for a single day.

Aditya J, 5th Grade

Flashback from last issue >>> YOUNG ACHIVERS

MY INSPIRATION

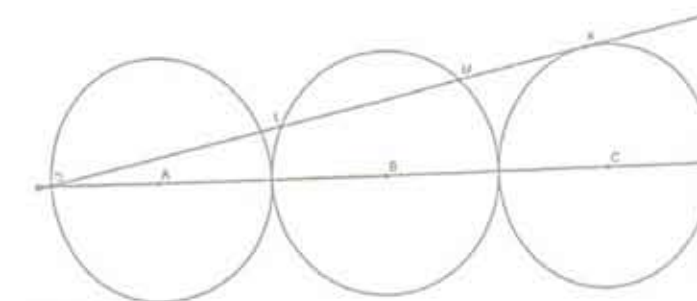
My inspiration is a boy who was born in Mumbai/Bombay in a lower middle class family. He was the youngest in the family of three brothers. From a very young age he used to love sports, dramatics and music. He was also good at academics. By the age of 10 he had represented his school in cricket. He won awards for dramatics and music as well. Appreciating his representation in school activities, the school awarded him a scholarship from Grade IV. He was selected for the under 15 cricket team by MCA (Mumbai Cricket Association). His dreams of becoming a cricketer was short lived when he met with an accident. Instead of losing hope, he shifted his focus to dramatics and progressed with determination. His parents were not happy with his decision of joining films. Later, when his first film won a national award everybody believed in his abilities and accepted him whole heartedly.

Can you guess who this successful man is?

He is my dad Abishek Shankar. He is my inspiration.

Karun Sai, 4th Grade

FIND THE SOLUTION



Diameter = 10cm; Ratio = ob : oc = 15 : 25 LM=?

SPEED MATHEMATICS

Speed math is nothing but, an easy way of doing math faster and easier. Speed math actually came from Vedic Math. Survey's proved that speed math helped trillions of people to improve their ability to do math easier, faster, and in a better way!

Given down here is an example of speed math:

❖ Base multiplication:

$$107 \times 104 = ?$$

$$(100+7) \times (100+4)$$

100 is common here,

Add 107 and 4, we get 111.

Then multiply 7 and 4, we get 28.

We get,

$$107 \times 104 = 11128.$$



Kamal R, 10th Grade

PERILS AND PITFALLS OF MATH

"Maths is the easiest subject to receive full marks in"

"There is no such thing as *careless mistakes* in maths."

"Maths is the most important subject."

Very often, we here these phrases. Well, I think otherwise. Maths is certainly important and is used in everyday life. But unlike some people who find Maths easy and fun, there is also a bunch who cannot get the hang of Maths, no matter how diligent the trials. I particularly don't agree when people say there is no such thing as *careless mistakes*, seeing as I make them all the time. Mistakes in copying down the sums, and then mistakes in calculation *are* careless, because these mistakes are caused more by oversight than because of lack of knowledge. As for "Maths is the easiest subject to receive full marks in."? Well, wish me luck on that one!

Anjana Ashok, 8th Grade