



EDUHEAL FOUNDATION

• LEARNING FOR LIFE •

103, Taj Apartment, Ground Floor, Ring Road, Near Safdarjung Hospital, New Delhi - 29.
Ph: 011-26197342, website : www.eduhealfoundation.org, e-mail : info@eduhealfoundation.org

Educational CD Titled 'Maths is Fun'

Math skills have become even more important in today's economy dominated by ICE [Information technology, Communications and Entertainment]. Even with the advent of computers and calculators it is one tool which is maximally used on a day to day basis.

We need to make efforts to popularize maths among school students. To do so we need to remove the fear of maths by making learning fun. We need to incorporate innovative teaching methods which will make students learning of maths fun.

Eduheal foundation with its math centric activities and publications plans to keep the students engaged in pursuit of maths year long by conducting interactive activities like interactive olympiad (NIMO), workshops, seminars, publishing [Mathemagic activity books](#) and bi-annual maths newspaper - [mathemagic](#).

NEED FOR INTERACTIVE MATHS LAB

- An Interactive maths lab helps students understand theoretical concepts through various activities.
- Disparate sections of maths, like algebra and geometry, are integrated. Students learn to make **geometrical models** from algebraic expressions and then apply them to their daily lives.
- In solid geometry, concepts for conic sections or volumes of cuboids, cones and cylinders are built by using **solid models**.
- The concepts of quadrants in simultaneous equations are cleared by using **geo boards** — a simple contraption of a wooden board fitted with pins where the X, Y and Z axes are demarcated using rubber bands.
- Concepts of units, in terms of area and volume measurements, are explained by using two-dimensional **paper cuttings** and **3-D models**.
- There are many other creativity-based exercises for teaching students such as **puzzles**, sudoku etc.
- The Ministry of HRD, Government of India is keen to implement maths lab through CBSE and NGO's like EduHeal Foundation.

Because numbers are naturally positive writing a "+" in front of a number has NO EFFECT

$$\begin{aligned} +7 &= 7 \\ ++7 &= 7 \\ +-7 &= -7 \\ -+7 &= -7 \end{aligned}$$

That means You can ignore The "+" sign

Think of "-" as meaning OPPOSITE

Writing + 4 will be shown on number lines as

Now, writing "-" in front of 4 - 4 will make the line flip OPPOSITE

Well, two negatives in a row make a positive

$$--3 = +3$$

(flip opposite)

(flip opposite again)

This means the '-'s cancel each other out

Two negative in a row make a positive

An easy way to remember this is to combine the "-"s into a "+"

$$--3 = +3$$

So how do you simplify this?

$$---+---+7$$

First take away the "+"s then combine the "-"s into "+"s

$$\begin{aligned} &---+---+7 \\ + + + + + &+7 = -7 \end{aligned}$$

And take those away

So -7 is the answer

The Interactive Mathemagic educational CD titled 'Maths is Fun' is especially designed for children upto age 11 i.e., upto class 5. The topics included in the CD are the topics which the children found difficult based on the feedback received from 1st Nationwide Interactive Maths Olympiad (NIMO) conducted on January 30th 2007.

The topics are

TOPICS	SLIDE NO
➤ Numbers	3 - 35
➤ Signed Numbers	36 - 50
➤ Mental Maths	51- 132
• Addition	53 - 69
• Subtraction	70 - 94
• Multiplication	95 -114
• Division	115 - 132
➤ Fraction	133 - 146
➤ Percentage	147 - 170
➤ Time & Measure	171 - 189
➤ Challenge Questions	190 - 209
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• Digit Dance	211
• Adding Animals	212
• Take it Away	213
• Times Rhymes	214
• Sharing Trails	215
• Fraction Snappers	216
• What is the Percentage	217
• Party Planner	218
• Catterpillar Pattern	219

More of mental maths, problem solving techniques, number pattern, common errors that students make and detailed solution to challenge questions and Interactive Activities (including activities for the teachers) will be provided during workshop to be conducted by EduHeal Foundation's mathematics resource person.

Interactive Worksheets contains exercises which the student has to solve with the help of teacher.

A detailed **Guide for teachers** is enclosed which the teacher will find useful.

The school can use the given material in the school magazine or else where as far as purpose is non- commercial.

We are also in the process of facilitating the workshop material in Hindi and other regional language. Similar educational CD is in development for middle classes (upto class 10th).

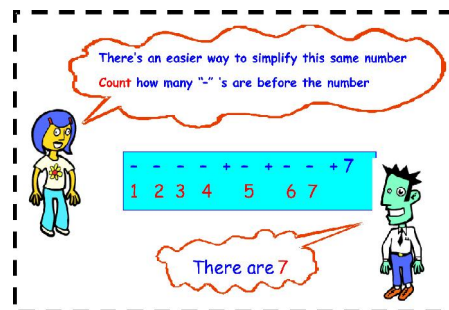
For any clarification, comment or suggestion you can contact EduHeal Foundation's National Coordinator on 011- 26197342.

With best wishes,



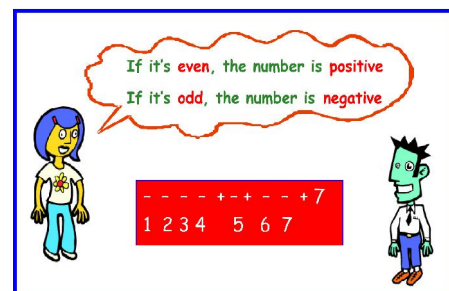
Dr. Sandeep Ahlawat

Director, EduHeal Foundation, New Delhi

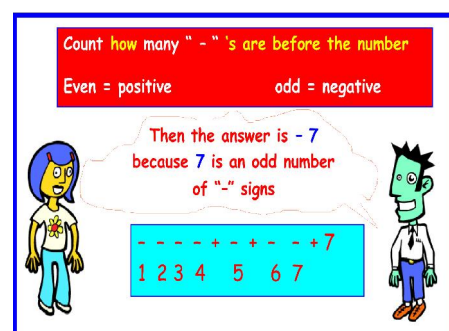


There's an easier way to simplify this same number
Count how many "-" signs are before the number

There are 7



If it's even, the number is positive
If it's odd, the number is negative



Count how many "-" signs are before the number
Even = positive odd = negative

Then the answer is -7
because 7 is an odd number
of "-" signs



Rs = Rupees

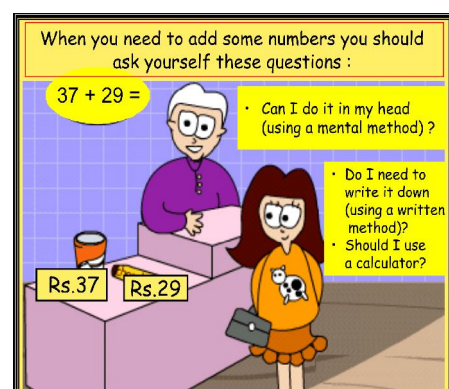
You go into the shop to buy a chocolate bar and a drink. You've got Rs.67.

Rs. 37 Rs.29



The chocolate costs Rs. 29 and the drink costs Rs.37. Have you got enough money?

Rs.37 Rs.29



When you need to add some numbers you should ask yourself these questions :

37 + 29 =

- Can I do it in my head (using a mental method)?
- Do I need to write it down (using a written method)?
- Should I use a calculator?

Rs.37 Rs.29