Math Tricks
Math Fun For Everyone
www.mathtricks.ca

Multiplication Methods

Multiply 43 x 92
To solve this problem, we use the Long Multiplication Method.
Multiply the multiplicand by each digit of the multiplier then add the results.

There are <u>alternative</u> algorithms that allow many students to find other methods that are appealing and easier to navigate.
Occasionally students prefer them to the traditional long multiplication method.

Some of these methods are:

Lattice Multiplication Method
Also known as the Jalousia method or Sieve method, the Lattice Method dates back to 10th century India.
The Lattice Method was introduced to Europe in 1202 in Fibonacci's Liber Abaci.
It is a method of multiplying large numbers using a grid.
Watch the video:
http://www.pedagonet.com/maths/lattice.htm

Vedic Multiplication Method
A system of mental calculation developed by Shri Bharati Krishna Tirthaji in the middle 20th century.
This method utilizes a vertical and crosswise formula.
Watch the video:
http://www.pedagonet.com/maths/vedic.htm

Area Multiplication Method
A method that teaches younger students how to associate an area model with multiplication by dividing a rectangle into simpler pieces.
Watch the video:
http://www.pedagonet.com/videos/areamethod.html

Egyptian Multiplication Method
Dating back to ancient Egypt, this method does not require memorization of all multiplication tables.
It relies only on the ability to add and multiply by 2.
Watch the video:
http://www.pedagonet.com/videos/egyptianmethod.html

Russian Peasant Multiplication Method
A method still used in some areas of Russia today, the Russian Peasant Multiplication Method involves the process of halving and doubling which reduces one factor to powers of two.
Watch the video:
http://www.pedagonet.com/videos/russianmath.html

Other Methods

Japanese Multiplication Method
This method uses graphic representation to enhance the understanding of the multiplication process.
Watch the video
http://www.pedagonet.com/videos/nipponmath.html

Butterfly Math
Enrichment activity for adding and subtracting fractions.
Watch the video
http://www.pedagonet.com/videos/butterflymath.html

Make math fun for everyone!

Distribute this handout to students, teachers, at workshops and on Math Fun Night.