

## A System Of The Mathematics By James Hodgson

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The Hindu-Arabic numeral system and the rules for the use of its operations, in use throughout the world today, evolved over the course of the first millennium AD in India and were transmitted to the Western world via Islamic mathematics. Other notable developments of Indian mathematics include the modern definition and approximation of sine and cosine, and an early form of infinite series.

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A rational number is defined as number of the form  $x/y$  where  $x$  and  $y$  are integers and  $Y \neq 0$ . i.e Any number which can be expressed as in the form of  $p/q$  where “ $p$ ” and “ $q$ ” are the integers and  $q \neq 0$  The set of rational numbers encloses the set of integers and fractions. The rational numbers that are not integral will have decimal values.

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The Trachtenberg Speed System of Basic Math can be taught to children once they can add and subtract. They do not need to have learned the multiplication tables before being able to multiply using this system. The basic multiplication method taught in this system is ideal for children and for adults who feel they are poor at multiplying.

### Trachtenberg Speed System of Basic Mathematics

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$$\begin{cases} x + y + z = 1 \\ x + 2y + 3z = 2 \\ x + 3y + 6z = 3 \end{cases}$$

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