

## This Site I Like

### EasyCalculation.com

The screenshot shows the homepage of EasyCalculation.com. The main heading is "Free Calculators and Converters". Below this, there is a list of various calculators and converters, including:

- Basic/Scientific Calculator**
- Basic Area Calculators:** Squares, Rectangle, Triangle, Rhombus, Trapezium, Polygon, Kite, Prism, Pyramid, Circle, Cone, Cube, Cylinder, Ellipse, Sphere, Hemisphere.
- Online Statistics Calculators:** Mean, Median, Mode, Standard Deviation, Geometric Mean, Grouped Data Arithmetic Mean, Class Interval Arithmetic Mean, Root Mean Square, Correlation Co-efficient, Regression, Harmonic Mean, Factorial, Permutation and Combination, Probability, Normal Distribution, Normal Distribution (PDF), Binomial Distribution, Negative Binomial Distribution, Poisson Distribution, Hypergeometric Distribution.
- Trigonometry Calculators:** Basic Trigonometry, Right Triangle.
- Analytical Geometry Calculators:** Distance between two Points, Ratio or Section, Mid Point, Centroid of a triangle, Point Slope Form, Slope Intercept Form, Two Point Form, Two Intercept Form, Length of Perpendicular, Distance between 2 Points(3 Dim), Ratio or Section(3 Dim), Mid Point(3 Dim).
- Numbers Calculators:** Math Expression, Square Root, Percentage, Decimal Fraction, Recurring Fraction, Prime Number, Prime Factor, HCF and LCM, Simple Interest, Compound Interest, Million Billion Converter.
- Online Matrix Calculators:** Matrix Addition, Matrix Subtraction, Matrix Multiplication, Matrix Inverse, Matrix Algebra.
- Algebra Calculators:** Quadratic Equation, Cubic Equation, Quartic Equation, Complex Number.
- Conversions:** Decimal to Hexa or Binary Converter, Hexadecimal to Decimal or Binary Converter, Binary to Hexa or Decimal Converter, String to ASCII or Hexa or Binary Converter.
- Color Converter:** HEX to RGB, RGB to HEX.
- Date and Day Calculators:** Age Calculator, Monthly Calendar, Day of Year, Days in Month/Leap Year, Days between Dates, Adding Days to Dates.
- Mortgage Calculators:** Simple Mortgage, Amortization, Loan Comparison, Adjustable Mortgage Payment, Down Payment, Interest Only Mortgage, Mortgage Prepayment, Pre-Payment Penalty, Mortgage Refinancing, Savings/Investment, Retirement.
- Unit Conversions:** Acceleration Converter, Area Unit Converter, Length Unit Converter, Volume Unit Converter, Weight Unit Converter.
- Conversion Factors And Tables:** Acceleration Conversion Factors, Area Conversion Factors, Length Converting Factors, Volume Converting Factors, Weight Conversion Factors.
- Health:** Body Mass Index(BMI), Pregnancy, Blood Alcohol Level(BAL), Water Requirement, Body Fat, Basal Metabolic Rate(BMR).
- Funny Math, Puzzles, Bandwidth Calculator, Love Calculator, Zodiac Calculator**
- Physics:** Classical Physics, Electromagnetism, Fluid Mechanics, Thermodynamics, Waste Management

I was once asked to calculate the geometric means for a large series of bacterial minimum inhibitory concentrations. Don't worry about what those are (for the purposes of this item), but the reality was that I was presented with 30 sets of data, each containing between 2 and 90 values. I did what every moderately sane editor would do – I panicked. Then I googled “geometric” means (you can always rely on Google to help you out in a crisis), and one of the first sites listed was EasyCalculation.com. Serenity returned. I calculated my means using the idiot-proof tool provided, completed the table as required, and

smugly sent it to my client. Another project was thus snatched from the jaws of disaster, and I suddenly had time on my hands. I started to look around the rest of the site.

This is truly an Aladdin's Cave of math tools. It has dozens of free online calculators (no registration or downloading is required) where you can enter data and output parameters as diverse as the area of a square through negative binomial distribution, factorials, ideal gas law, basal metabolic rate, and even what size air conditioning unit you need for a room of a given size and aspect and what temperature you want to achieve.

In addition, there are detailed explanations of what each parameter is and what it is used for, thus enabling you to sound very knowledgeable when reporting in to the boss or the client – and learning plenty along the way.

If you have some “study time” to use then there is a bank of tutorials for you to work through. Although they require you to have basic mathematical knowledge, anyone who did secondary school maths should have no problem.

On the lighter side the site includes brain-teasers and some calculators intended to entertain rather than inform. My favourite fun page is imaginatively entitled “Funny Math”, and here you can find all manner of little known mathematical facts. For example, who would know that 10 raised to the power 366 is called a Primo-Vigesimo-Centillion (and you might reasonably ask, “Why would anyone want to know?”). If you are interested in ancient number systems there is a wealth of information on those – did you know, for instance, that the Babylonians' numbering system had only two basic elements ( $\llcorner$  and  $\llcorner$ ), meaning that anything bigger than three looks like a pyramid of martini glasses!

Take a look around this site, the property of HIOX in India, and I challenge you to not find something useful, of interest, or at least entertaining.

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