

Basic Algebra

Algebraic Transposition

$$\begin{aligned}
 a + b &= c \\
 a &= c - b \\
 b &= c - a \\
 a + b - c &= 0
 \end{aligned}$$

$$\begin{aligned}
 a &= \frac{bc}{c} & b &= \frac{ac}{c} \\
 b &= \frac{ad}{c} & d &= \frac{bc}{a}
 \end{aligned}$$

$$\begin{aligned}
 ad &= bc \\
 a &= \frac{bc}{d} & c &= \frac{ad}{b}
 \end{aligned}$$

Quadratic Equation

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Exponents & Logarithms

Laws of Exponent

$$\left(\frac{a}{b}\right)^x = \frac{a^x}{b^x}$$

$$\frac{a^x}{a^y} = a^{x-y}$$

$$\frac{1}{a^x} = a^{-x}$$

$$(a^x)(a^y) = a^{x+y}$$

$$(a^x)^y = a^{xy}$$

$$a^x = \sqrt[x]{a^y}$$

Laws of Logarithm

$$y = \log_a x, \quad b^y = x$$

$$\log_a b = 1$$

$$\log_a 1 = 0$$

$$\log_a b^x = x$$

$$\log_a (x^r) = r \log_a x$$

$$\log_a (xy) = \log_a x + \log_a y$$

$$\log_a \left(\frac{x}{y}\right) = \log_a x - \log_a y$$

Decibel Table

dB	Power Ratio	Volt Ratio	dB	Power Ratio	Volt Ratio
0	1.00	1.00	10	10	3.2
0.5	1.12	1.05	15	31.6	5.6
1	1.26	1.12	20	100	10
2	1.58	1.26	30	1k	32
3	2.00	1.41	40	10k	100
4	2.51	1.58	50	10 ⁵	316
5	3.16	1.78	60	10 ⁶	1k
6	3.98	2.00	70	10 ⁷	3,16k
7	5.01	2.24	80	10 ⁸	10k
8	6.31	2.51	90	10 ⁹	31.6k
9	7.94	2.82	100	10 ¹⁰	10 ⁵

Common Conversions

Metric to Metric



English to Metric/English



Abbrev: inch (in), feet (ft), pound (lb), yard (yd), ounce (oz)

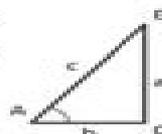
Trigonometry

$$\sin A = \frac{a}{c} = \frac{\text{Opposite}}{\text{Hypotenuse}}$$

$$\cos A = \frac{b}{c} = \frac{\text{Adjacent}}{\text{Hypotenuse}}$$

$$\tan A = \frac{a}{b} = \frac{\text{Opposite}}{\text{Adjacent}}$$

$$\csc A = \frac{1}{\sin A}, \quad \sec A = \frac{1}{\cos A}, \quad \cot A = \frac{1}{\tan A}$$



Boolean Algebra

Basic Rules

$$\begin{aligned}
 A + 0 &= A & A + 0 &= A & \bar{\bar{A}} &= A \\
 A + 1 &= 1 & A + 1 &= A & A + \bar{A} &= A \\
 A + A &= A & A + A &= A & A + \bar{A} &= A + B \\
 A + \bar{A} &= 1 & A + \bar{A} &= 0 & A + \bar{A} &= A + B
 \end{aligned}$$

$$(A + B)(A + C) = A + BC$$

De Morgan's

$$(\overline{AB}) = (\bar{A} + \bar{B}) \quad \overline{(A + B)} = (\bar{A})(\bar{B})$$

Number System Equivalent

Decimal	Binary	Octal	Hex.
0	0	0	0
1	1	1	1
2	10	2	2
3	11	3	3
4	100	4	4
5	101	5	5
6	110	6	6
7	111	7	7
8	1000	10	8
9	1001	11	9
10	1010	12	A
11	1011	13	B
12	1100	14	C
13	1101	15	D
14	1110	16	E
15	1111	17	F
16	1 0000	20	10
17	1 0001	21	11
18	1 0010	22	12
19	1 0011	23	13
20	1 0100	24	14
32	10 0000	40	20
64	100 0000	100	60
96	110 0000	140	60
99	110 0011	143	63

Decimal to Binary



Four quotient is four remainder

Binary to Decimal



Binary, Octal & Hex

Group binary to 3 to convert to Octal



Group binary to 4 to convert to Hex



Convert back by doing the reverse (ungrouping).

Temperature



Formulas For Mathcounts

A Gutmann



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Table of Contents Formulas For Mathcounts

1. Understanding the eBook Formulas For Mathcounts
 - The Rise of Digital Reading Formulas For Mathcounts
 - Advantages of eBooks Over Traditional Books
2. Identifying Formulas For Mathcounts
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Formulas For Mathcounts
 - User-Friendly Interface
4. Exploring eBook Recommendations from Formulas For Mathcounts
 - Personalized Recommendations
 - Formulas For Mathcounts User Reviews and Ratings

- Formulas For Mathcounts and Bestseller Lists
- 5. Accessing Formulas For Mathcounts Free and Paid eBooks
 - Formulas For Mathcounts Public Domain eBooks
 - Formulas For Mathcounts eBook Subscription Services
 - Formulas For Mathcounts Budget-Friendly Options
- 6. Navigating Formulas For Mathcounts eBook Formats
 - ePub, PDF, MOBI, and More
 - Formulas For Mathcounts Compatibility with Devices
 - Formulas For Mathcounts Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Formulas For Mathcounts
 - Highlighting and Note-Taking Formulas For Mathcounts
 - Interactive Elements Formulas For Mathcounts
- 8. Staying Engaged with Formulas For Mathcounts
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Formulas For Mathcounts
- 9. Balancing eBooks and Physical Books Formulas For Mathcounts
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Formulas For Mathcounts
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Formulas For Mathcounts
 - Setting Reading Goals Formulas For Mathcounts
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Formulas For Mathcounts
 - Fact-Checking eBook Content of Formulas For Mathcounts
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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