

## Basic Algebra

### Algebraic Transposition

$$\begin{array}{l}
 a + b = c \\
 a = c - b \\
 b = c - a \\
 a + b - c = 0
 \end{array}
 \qquad
 \begin{array}{l}
 a = \frac{bc}{d} \\
 ad = bc \\
 a = \frac{bc}{d} \quad c = \frac{ad}{b} \\
 b = \frac{ad}{c} \quad d = \frac{bc}{a}
 \end{array}$$

### Quadratic Equation

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

## Exponents & Logarithms

### Laws of Exponent

$$\begin{array}{l}
 \left(\frac{a}{b}\right)^x = \frac{a^x}{b^x} \\
 \frac{a^x}{a^y} = a^{x-y} \\
 \frac{1}{a^x} = a^{-x}
 \end{array}
 \qquad
 \begin{array}{l}
 (a^x)(a^y) = a^{x+y} \\
 (a^x)^y = a^{xy} \\
 a^x = \sqrt[x]{a^y}
 \end{array}$$

### Laws of Logarithm

$$\begin{array}{l}
 y = \log_a x \\
 b^y = x
 \end{array}
 \qquad
 \begin{array}{l}
 \log_a b = 1 \\
 \log_a 1 = 0 \\
 \log_a b^x = x
 \end{array}$$

$$\begin{array}{l}
 \log_a (x^r) = r \log_a x \\
 \log_a (xy) = \log_a x + \log_a y \\
 \log_a \left(\frac{x}{y}\right) = \log_a x - \log_a y
 \end{array}$$

## 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 <sup>5</sup>	316
5	3.16	1.78	60	10 <sup>6</sup>	1k
6	3.98	2.00	70	10 <sup>7</sup>	3,16k
7	5.01	2.24	80	10 <sup>8</sup>	10k
8	6.31	2.51	90	10 <sup>9</sup>	31.6k
9	7.94	2.82	100	10 <sup>10</sup>	10 <sup>5</sup>

## Common Conversions

### Metric to Metric



### English to Metric/English



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

## Trigonometry



## Boolean Algebra

**Basic Rules**

$$\begin{array}{l}
 A + 0 = A \\
 A + 1 = 1 \\
 A + A = A \\
 A + \bar{A} = 1
 \end{array}
 \qquad
 \begin{array}{l}
 A \cdot 0 = 0 \\
 A \cdot 1 = A \\
 A \cdot A = A \\
 A \cdot \bar{A} = 0
 \end{array}
 \qquad
 \begin{array}{l}
 \bar{\bar{A}} = A \\
 A \cdot \bar{A} = 0 \\
 A + \bar{A} = 1
 \end{array}$$

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

**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	30
64	100 0000	100	60
96	110 0000	140	60
99	110 0011	143	63

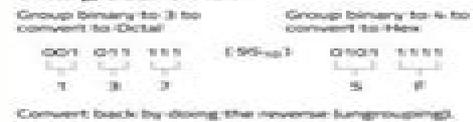
### Decimal to Binary



### Binary to Decimal



### Binary, Octal & Hex



## Temperature



# Formulas For Mathcounts

**M Tight**



## Formulas For Mathcounts:

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**Teaching Children Mathematics** ,1999 *Teaching Students with Learning Problems in the Inclusive Classroom* Lisa Freund,Rebecca Z. Rich,2005 For the K 12 special education methods course for future teachers of students with learning problems Knowing that no one approach to teaching is right for all children all of the time this comprehensive yet accessible case based text presents current best practices with the aim of helping prospective teachers learn to tailor instruction to the diverse needs and abilities of students with learning problems The authors explore the entire inclusion movement and the theories of teaching and learning that inform it discuss the nature of students with learning problems and the characteristics of effective teachers and describe a broad spectrum of proven instructional strategies for all curriculum areas Finally they examine the unique challenges and opportunities that transitions create for students with learning problems

**Mathematics Teaching in the Middle School** ,1994 [The Unofficial Guide to Homeschooling](#) Kathy Ishizuka,2000-05-15 The most comprehensive volume of its kind *The Unofficial Guide to Homeschooling* provides balanced information and invaluable guidance on one of today s fastest growing education alternatives As many as 1 5 million children are now being homeschooled in a burgeoning movement that is seeing more and more parents taking a primary role in providing their children with quality education If you seek guidance on homeschooling or are considering this education option for your child you ll need clear thorough and practical information This book will tell you how to determine if homeschooling is right for your family what s involved in complying with state regulations how to choose a curriculum or create your own how to motivate your child and much more Homeschoolers of every stage will find pertinent information from insight on preschool issues to the college admissions process and beyond *DeKalb County Profile* ,1992

**Teaching Secondary Mathematics** Alfred S. Posamentier,Beverly S. Smith,Jay Stepelman,2006 For courses in Secondary Mathematics Methods *Teaching Secondary Mathematics Techniques and Enrichment Units* 7th edition has been thoroughly revised to discuss current methods of teaching mathematics considering all aspects and responsibilities of the job beginning with a brief overview of the history of mathematics education and how it has evolved over time to include

standards for teaching and assessment The authors address how to craft rich and effective daily lesson plans and how to use a variety of instructional tools and strategies to reach all students in a classroom Problem solving is a key focus from its instructional underpinnings to its recreational and motivational aspects The second part of the text provides mathematics teachers with a collection of enrichment units appropriate for the entire secondary school curriculum spectrum *The Education Index* ,1988

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