

Basic Algebra

Algebraic Transposition

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

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

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

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

Quadratic Equation

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

Exponents & Logarithms

Laws of Exponent

$$\begin{aligned} \left(\frac{a}{b}\right)^n &= \frac{a^n}{b^n} \\ a^m \cdot a^n &= a^{m+n} \\ \frac{a^m}{a^n} &= a^{m-n} \end{aligned}$$

$$\begin{aligned} (a^m)^n &= a^{mn} \\ (a^m)^n &= a^{mn} \\ a^{\frac{1}{n}} &= \sqrt[n]{a} \end{aligned}$$

Laws of Logarithm

$$\begin{aligned} y &= \log_a x \\ b^y &= x \end{aligned}$$

$$\begin{aligned} \log_a a &= 1 \\ \log_a 1 &= 0 \\ \log_a b^x &= x \log_a b \end{aligned}$$

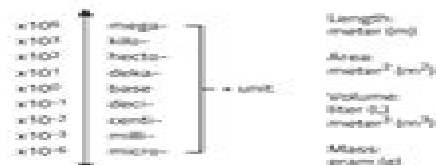
$$\begin{aligned} \log_a (x^r) &= r \log_a x \\ \log_a (xy) &= \log_a x + \log_a y \\ \log_a \left(\frac{x}{y}\right) &= \log_a x - \log_a y \end{aligned}$$

Decibel Table

dB	Power Ratio	Watt Ratio	dB	Power Ratio	Watt Ratio
0	1.00	1.00	10	10	3.2
0.5	1.12	1.06	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



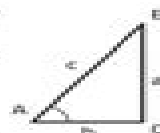
English to Metric/English



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

Trigonometry

$$\begin{aligned} \sin A &= \frac{a}{c} = \frac{\text{Opposite}}{\text{Hypotenuse}} \\ \cos A &= \frac{b}{c} = \frac{\text{Adjacent}}{\text{Hypotenuse}} \\ \tan A &= \frac{a}{b} = \frac{\text{Opposite}}{\text{Adjacent}} \\ \csc A &= \frac{1}{\sin A} & \sec A &= \frac{1}{\cos A} \\ \cot A &= \frac{1}{\tan A} \end{aligned}$$



Boolean Algebra

Basic Rules

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

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

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



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



Basic Math Formulas Cheat Sheet

WJ Hussar



Basic Math Formulas Cheat Sheet:

Basic Math Formulas Cheat Sheet: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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