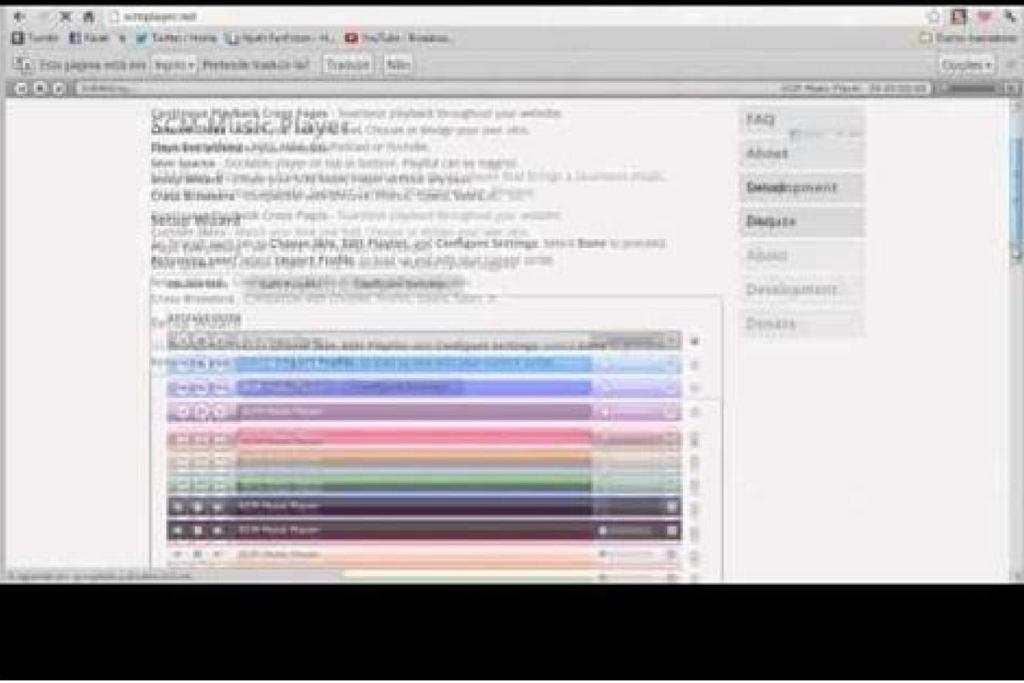


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The values of constants given in Table 2.3 are based on an adjustment by Taylor, Parker, and Langenberg, Rev. Mod. Phys. 41, p275 (1969). They are being considered for adoption by the Task Group on Fundamental Constants of the Committee on Data for Science and Technology, International Council of Scientific Unions. The uncertainties given are standard errors estimated from the experimental data included in the adjustment. Where applicable, values are based on the unified scale of atomic masses in which the atomic mass unit (u) is defined as 1/12 of the mass of the atom of the ¹²C isotope.

Table 2.3. Adjusted Values of Constants

Constant	Symbol	Value	Uncertainty	Unit	
				SI	CGS
Speed of light in vacuum	<i>c</i>	2.997 924 58	±10	m/s	10 ¹⁰ cm/s
Elementary charge	<i>e</i>	1.602 191 7	70	10 ⁻¹⁹ C	10 ⁻¹⁸ cm ³ /g ^{1/2} s ^{1/2}
Avoirdupois constant	<i>N_A</i>	6.022 169	40	10 ²³ mol ⁻¹	10 ²³ mol ⁻¹
Atomic mass unit	<i>m_u</i>	1.660 538 72	11	10 ⁻²⁷ kg	10 ⁻²⁷ g
Electron rest mass	<i>m_e</i>	9.109 382 34	54	10 ⁻³¹ kg	10 ⁻³¹ g
Proton rest mass	<i>m_p</i>	1.672 621 627	36	10 ⁻²⁷ kg	10 ⁻²⁷ g
Neutron rest mass	<i>m_n</i>	1.674 927 289	41	10 ⁻²⁷ kg	10 ⁻²⁷ g
Faraday constant	<i>F</i>	9.648 456 523	24	10 ⁴ C/mol	10 ⁴ cm ³ /g ^{1/2} s ^{1/2} mol ⁻¹
Planck constant	<i>h</i>	6.626 068 96	50	10 ⁻³⁴ J·s	10 ⁻³⁴ erg·s
Fine structure constant	<i>α</i>	7.297 352 569 8	11	10 ⁻³	10 ⁻³
Charge to mass ratio for electron	<i>e/m_e</i>	1.758 820 024	54	10 ¹¹ C/kg	10 ¹¹ cm ³ /g ^{1/2} s ^{1/2}
Quantum-charge ratio	<i>h/e</i>	4.135 667 696	14	10 ⁻¹⁵ J·s/C	10 ⁻¹⁵ cm ³ /g ^{1/2} s ^{1/2}
Compton wavelength of electron	<i>h/m_ec</i>	2.426 310 238	12	10 ⁻¹² m	10 ⁻¹¹ cm
Compton wavelength of proton	<i>h/m_pc</i>	1.321 409 876	14	10 ⁻¹⁶ m	10 ⁻¹⁵ cm
Rydberg constant	<i>R_∞</i>	1.097 373 156 879 7	11	10 ⁷ m ⁻¹	10 ⁷ cm ⁻¹
Bohr radius	<i>a₀</i>	5.291 772 109 03	11	10 ⁻¹¹ m	10 ⁻¹⁰ cm
Electron radius	<i>r_e</i>	2.817 940 326 7	13	10 ⁻¹⁵ m	10 ⁻¹⁴ cm
Gyromagnetic ratio of proton	<i>γ_p</i>	2.675 221 874 4	12	10 ⁸ rad·s ⁻¹ T ⁻¹	10 ⁸ rad·s ⁻¹ G ⁻¹
(uncorrected for diamagnetism, H ₀)	<i>γ_p</i>	2.675 221 874 4	12	10 ⁸ rad·s ⁻¹ T ⁻¹	10 ⁸ rad·s ⁻¹ G ⁻¹
Bohr magneton	<i>μ_B</i>	9.274 009 474 8	11	10 ⁻²⁴ J/T	10 ⁻²⁴ erg/G
Nuclear magneton	<i>μ_N</i>	1.836 119 732 6	11	10 ⁻²⁶ J/T	10 ⁻²⁶ erg/G
Proton moment	<i>μ_p</i>	1.410 603 324 7	11	10 ⁻²⁶ J/T	10 ⁻²⁶ erg/G
(uncorrected for diamagnetism, H ₀)	<i>μ_p</i>	1.410 603 324 7	11	10 ⁻²⁶ J/T	10 ⁻²⁶ erg/G
Gas constant	<i>R</i>	8.314 472 J·K ⁻¹ ·mol ⁻¹	10	erg·K ⁻¹ ·mol ⁻¹	
Normal volume perfect gas	<i>V_n</i>	22.414 10 L·mol ⁻¹	10	cm ³ ·mol ⁻¹	
Boltzmann constant	<i>k</i>	1.380 650 486 J·K ⁻¹	10	erg/K	
First radiation constant (h _ν)	<i>c₁</i>	3.741 771 535 4	10	W·m ² ·K ⁻⁴	10 ⁻¹⁶ erg·cm ² ·K ⁻⁴
Second radiation constant (hc)	<i>c₂</i>	1.438 837 374 7	10	cm·K	10 ⁻³ cm·K
Stefan-Boltzmann constant	<i>σ</i>	5.670 373 431 0	10	W·m ⁻² ·K ⁻⁴	10 ⁻⁸ erg·cm ⁻² ·K ⁻⁴
Gravitational constant	<i>G</i>	6.672 59(8) × 10 ⁻¹¹	31	10 ⁻¹¹ N·m ² /kg ²	10 ⁻⁸ dyn·cm ² /g ²

†Based on 1 std. dev.; applies to last digit in preceding column. *Electromagnetic system. †Electrostatic system.

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Jakob Trachtenberg believed that everyone is born with phenomenal abilities to calculate. He devised a set of rules that allows every child to make multiplication, division, addition, subtraction and square-root calculations with unerring accuracy and at remarkable speed. It is the perfect way to gain confidence with numbers. The complete system of the Trachtenberg method of mathematics which makes possible high-speed arithmetical calculations with a remarkable degree of accuracy. This method is not only speedy but simple. Once one has mastered the rules, lightning calculation is as easy as reading a story. It looks like magic, but the rules are based on sound logic. The Trachtenberg Speed System Of Basic Mathematics is a guide to performing lightning quick calculations of mind-boggling numbers. Summary Of The Book The Trachtenberg Speed System Of Basic Mathematics is a gateway to making rapid mental arithmetic calculations. The Trachtenberg system is named after Jakob Trachtenberg, the Russian-Jewish engineer who developed this system while he was held in a Nazi concentration camp. Some of these methods, including algorithms for addition, division, and multiplication, have found space in this revolutionary work. The only prerequisite to learning these techniques is an ability to count from 1 to 11. Assuming that the reader is familiar with counting, he or she can easily master the technique and handle large numbers with ease. The system does have some inaccuracies built into it, but it's found that an accuracy of 99 percent is assured. Many students who had previously failed in lower classes were enrolled in a school that taught the Trachtenberg system as a last resort. After undergoing some training in the system, these students were able to calculate very large numbers with incredible ease. Jakob Trachtenberg believed that each and everyone comes to this world with incredible calculation possibilities. He intended to open this possibility with his system. The Trachtenberg system isn't tough to learn, not by any stretch of the imagination. It's simple and immensely effective. That's because, right from the start, Trachtenberg shared these techniques with children, and especially those children who were doing poorly at school. The Trachtenberg Speed System Of Basic Mathematics contains 8 sections. Through each of these sections, readers will learn such methods as rapid multiplication by the direct method, squares and square roots, and the two-finger method of speed multiplication. Home >> Contents on this page What is Trachtenberg Speed Math? Trachtenberg Speed Math (TSM) is a software program based on Professor Jakob Trachtenberg's system of simple methods to perform high speed mathematics. TSM is an interactive, speed math learning tool that allows you to quickly learn Trachtenberg's system. The simple methods were invented by this brilliant Russian engineer while imprisoned in the Nazi death camps during World War II. Because Trachtenberg did not have much paper to write on in prison, he invented methods based on mental calculations. Children extremely weak in mathematics displayed genius-like mathematical abilities after learning the system. Who was Trachtenberg? The late Professor Jakob Trachtenberg was the founder of the Mathematical Institute in Zurich, Switzerland. He was a Russian, born in Odessa on 17 June 1888 and studied engineering. While still in his early twenties, he became Chief Engineer with 11,000 men under his supervision. After the Czar of Russia was overthrown, he escaped to Germany where he became very critical of Hitler. He was later imprisoned. Most fellow prisoners around him gave up hope and died even before being sent to their death. He realized that if he wanted to stay alive, he had to occupy his mind with something else rather than focus on the hopeless conditions surrounding them. He set his mind on developing methods to perform speed mathematics. With the help of his wife, he escaped from prison and fled to Switzerland. There, he taught his speed math system to young children. It was very successful. How does Trachtenberg Speed Math help? As a person practises and learns the speed math system, he becomes very good at basic math. His/her mental abilities are exercised through practice. Powerful visualization skills are developed since much of the steps involved in mental calculations are seen in the mind. The person's ability to concentrate as a whole becomes very strong. His/her overall capabilities in all OTHER areas improve. He/she becomes confident which is a very key factor in becoming successful in life. Trachtenberg Speed Math software is the tool that makes this happen! What do I learn? You start off with refining skills in basic multiplication, basic division, basic addition, basic subtraction, etc. Then you learn: Speed addition: you never need to add beyond 11 as you calculate down a column of numbers. You learn to add starting from any column unlike traditional addition. Speed multiplication: you learn 3 methods for mentally multiplying huge numbers: for example: 425974315 x 57493. Speed division: divide large numbers by large numbers. Squares: learn to mentally square 2-digit numbers. Square roots: calculate square roots of up to 8-digit numbers. The best of all: you learn how to visualize all this in your mind. You develop powerful concentration. This is the key to all success. Why should I buy it? If you are weak in math skills, Trachtenberg Speed Math software will help you develop the foundation for all math skills. If you are already strong in math, you'll GET STRONGER! You get to practice hundreds of thousands of math problems with no limit whatsoever. Practice makes perfect! You'll perform high speed mental calculations. You'll find yourself becoming more confident. You'll even begin to enjoy math if you don't already. No money can buy that! After seeing how neat Trachtenberg's system is, you may begin to develop the ability to simplify. You'll look for all kinds of neat ways to do everything else. You'll enjoy that. A new mindset! A new and more powerful you! ...and for less than a quarter a day for a year is all that it'll cost you. Shouldn't I buy the book instead? Sure you can, that is, if you don't want the following benefits TSM software provides: Unlimited number of questions to practice on Completely worked out steps at every stage of solving the problem Basic math practice using flash methods that help you learn subliminally/subconsciously Set the problem's complexity levels according to your ability Automated timers to time yourself. Track your best time automatically Track your performance with TSM's customizable scoring system Everything the book teaches you and more!

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