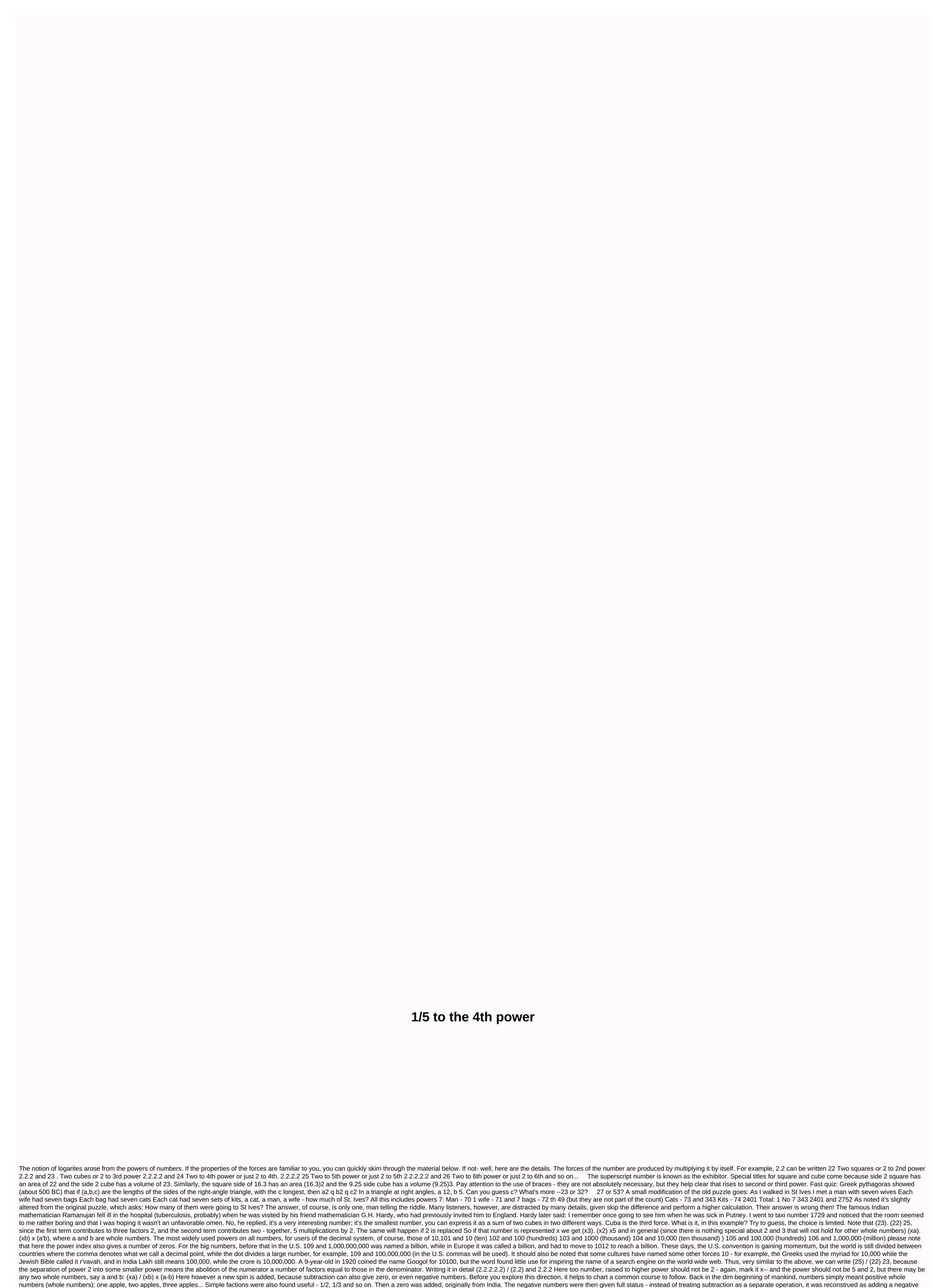
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number. Similarly, each x integrator was the reverse number (1/x) (many calculators have a 1/x button). In ancient Egypt, 5,000 years ago, these were the only recognized factions, and so they are still sometimes called Egyptian factions. When the Egyptian of that time wanted to express 3/4, he was presented as (1/2 and 1/4). Sometimes you need long expressions, such as 99/100, 1/2, 1/4, and 1/25, but it always worked. Worked. The ancient Greeks went further and defined as a rational numbers - rational derived from Latin) any multiple such reverse, such as 4/13, 22/7 or 355/113. Rational numbers are dense: no matter how close the two of them are to each other, it is always possible to place another rational number between them - for example, half of their sum is one choice of many. Tithing fractions that stop at some length are rational numbers too, although decimal fractions having infinite length, but with a repetitive

pattern (0.33333..., 0.575757... etc.) can always be expressed as rational fractions. Therefore, Greek philosophers in the early days of mathematics were surprised that, despite this density, some additional numbers can still hide between rational and cannot be represented by any rational number. For example, √2 of this

class, the number of which is 2. Most of the square roots and solutions of equations are as similar as π, the ratio between the circumference of the circumference of the square roots and a much better one at 355/113, but its exact value can never be represented by any faction. Mathematicians view all previous types of numbers as a single class of real numbers. Logarithms positive numbers are real numbers. Previously, the powers were integrators, denoting at some time a number multiplied on itself. Therefore, in order for the above expression to become meaningful, the concept of increasing the number to some capacity where any real number can be a power index needs to be summarized. It's all whole numbers: 101 and 10 so magazine 10 - 1,102 - 100, so magazine 100 - 2 103 - 1000, so magazine 1000 and 3 104 and 10,000 so magazine 100,000, 100,000, so the magazine 1,000,000 and 6 These logarithms also meet the rules that we found (xa). (xb) - x (a'b) So if x-10 U (10a) V (10b) W (10(a'b)- U.V. a'b) - W magazine we have logV and magazine U (U.V) This ratio has whenever you and V are the powers of 10: logarithms. as demonstrated in the review in the previous section. As the concept of logarite expands, this property always remains. This is what originally made logarithms useful: the conversion of multiplication in addition. Instead of multiplying you and V, we only need to add their logarithm equals that amount: it will be a product (U.V). Similarly, (xa) / (xb) x (a-b) if x 10, U (10a) V (10b) W (10(a-b)) - U/V, then in division we have logU - logU and journal (U/V) or logarith coefficient - is the difference between logarites of divided numbers, for example, 107 / 104 and 103, which agrees with 7 - 43. Separation, however, opens up a new territory: under the same rule, for example, 1040 / 1043 - 10-3 - 0.001 and 104 / 104 - 100 - 1, because the number divided by itself should equal 1. Indeed, this is consistent with the rule, adding or subtracting 1 to logarithm moves its number one decimal to the right left. Earlier 106 = 1,000,000 = 6 105 = 100,000100 so log 100 = 2 101 = 10 so log 100 = 2 101 = 10 so log 0.000 1 = -4 10-5 = 0.000 01 so log 0.000 01 = -5 10-6 = 0.000 001 so log 0.000 01 = 0.000 01 010 = 0.000 01 = -2 10-3 = 0.001 010 = 0.000 01 = -2 10-4 = 0.000 10 = -2 10-4 = 0.000 10 = -2 10-4 = 0.000 10 = -2 10-4 = 0.000 10 = -2 10-4 = 0.000 10 = -2 10-4 = 0.000 10 = -2 10-4 = 0.000 10 = -2 10-4 = 0.000 10 = -2 10-4 = 0.000 10 = -2 10-4 = 0.000 10 = 0.000 10 = -2 10-4 = 0.000 10 = 0.000 10 = 0.000 10 = 0.000 10 = 0.000 10 = 0.000 10 = 0.= -6 The above demonstrates another property of logarithms: Log (VQ) = Q log V For the special case V = 10 LogV No. 1 The number with which scientists work is sometimes very small or very large. Then it is convenient (for calculation, as well as for the application of logarithms) to divide the number into two parts - the number from 1 to 10, giving its structure, and the power of 10, giving a value. An electric charge, for example, is measured in pendants: about one pendant flows every second through a 100-watt light bulb. This current is carried out by a huge number of tiny negative particles found in any atom known as electrons. Each electron carries a charge of q 1.60219 10-19 pendant If it were written as a decimal fraction, the expression would take about half a line, with 18 zeros after the decimal point in front of significant numbers - and a quick look at it wouldn't give much information, still would have to count zeros. The mass of the electron is also small m 9.1095 10-29 kg Scientific notation makes it easier to write such numbers. Another example is the speed of light, as the decimal number (accuracy to 6 digits) 299,792,000, in scientific notation c 2.99792 108 meters/second Scientific notation also makes multiplication and division easier and less prone to errors. One multiplies or divides separately numerical factors, each of which is from 1 to 10, and usually sees at a glance if the result has the correct range of magnitude. Separately, one adds together all the power exhibitors of multiplied factors, and subtracts those of the separated ones, in order to obtain the 10 room power that then appears in scientific notation. Of course, in any calculation, you need to use sequential units - it's do not do to mix meters and inches, or pounds and grams (such inconsistent use apparently led to an error that caused the space probe to Mars to miss the planet and get lost). The most common sequential system in physics and technology is the MKS system, measuring distance in meters, mass in kilograms and time in seconds. All other units are determined by the choice of these three standards, and as long as one remains in the MKS system, the results correspond to the units of that system too (for example, if the energy is calculated, it always goes out in the joules). The electrons of the aurora (Northern Lights) travel at a speed of light, in the B magnetic field, which near the Earth is about 5 10-5 Tesla (Tesla is a block of MKS magnetic field: at the pole of an iron magnet you get about 1 Tesla). The magnetic field causes the electron to spiral around the direction of magnetic force (magnetic field line) with a radius of r q mv/(qB), where v is part of the speed perpendicular to direction B. If the component perpendicular to B is half the total speed (i.e.c/10), what is r? We have m 9,1095 10-29 kg v 2.99791 107 m/s (0.1 g) q 1.60219 10-19 pendant B and 5 10-5 Tesla Gathering of all numerical factors, and rounding up 3 decimal marks (9.11). (3.00)/q (1.6). (5) - 3.42 Gathering of all exhibitors (-29'7) - (-19 - 5) - (-22) - (-24) - No. 2 Radius, This is the order of the radius of a very thin aurora beam visible from the ground.

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