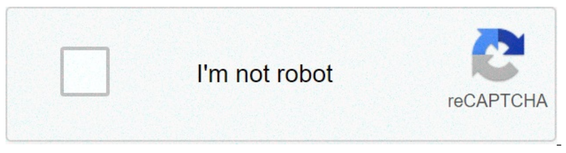

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1000000 in exponential form

exponential notation is an alternative method of expressing numbers. exponential numbers take the form of a, where a is multiplied by itself n times ©. A simple example is 8 = 23 = 2a 2a 2. In exponential notation, is defined as a base while n is called power or exponent or index. Scientific notation is a specific example of exponential numbers, 10 is almost always used as the base number. So 103/2 10a 10a 10, while 10-3 is the notation for the reciprocal of 103 ie 1/1000. The other name for this format is standard mathematical form (you may have encountered this in GCSE mathematics). Expressing the numbers that are non-integer powers of 10 in scientific notation often requires a further multiplier, called the coefficient (C), giving the expression of the form C Ã 10n. For example, 5 A 103 is the scientific notation for the number 5000, while 3.25A 102is scientific notation for the number 325. Similarly, 3.25A 10-2 represent 3:25 Ã 1 100 100 = 3.25 = 0.0325. Convention Ã scientific convention of expressing all numbers as coefficients between 1 and 10 and followed by an appropriate power of 10.Examples 3.52 A 104 352 A 102 NOT NOT 35.2 A 103 175 A 103 175 A 10 NON NON 17.5 102 4:36 Ã 10-2 NOT 0.436 Ã 10-1 10-3 43.6 iS NOT you should use the scientific notation whenever you express very large numbers or very small - it is a recognized form of " shorthand ", and avoids spurious accuracy es create 9,000,000 suggests that the number is exactly nine million, in contrast to 9.0 a 106 which suggests that accuracy beyond the first decimal place of the coefficient. Learning Objectives (2.2.1) scientific notation writing (2.2.2) a convert between scientific and decimal notation (2.2.3) Ã ¢ Ina multiply and divide numbers expressed in scientific notation (2.2.4) Ã ¢ solution of a problem scientific notation in the same way that members help them to be able to write the multiplication repeated with little effort, but they are also used to express large and small numbers without a lot of zeros and confusion. Scientists and engineers make use of members regularly to keep track of the place value of numbers that are working with the closing calculations. (2.2.1) scientific notation Writing Before you can convert between decimal and scientific notation, we need to know the difference between the scientific notation is used two.Ã Bya scientists, mathematicians and engineers when they are working with very large or tiny numbers.Ã using exponential notation, large and small numbers can be written in a way that is easier to read. When a number is written in scientific notation, the exponent tells you whether the term is a big or a small number. A positive exponent indicates a large number and a negative exponent indicates a small number that is between 0 and 1. It 'hard to see how big a billion or Katherine is. Here's a way to help Thinka on it. Word How many thousands Number Scientific Notation million 1000 x 1000 = 1,000,000 thousand thousands Ã [latex] 10 ^ 6 [/ latex] billion euro (1000 x 1000) x 1000 = a thousand million billion Ã Ã [latex] 10 ^ 9 [/ latex] Katherine (1000 x 1000 x 1000) x 1000 = one million the 1,000,000,000,000 Ã Ã [latex] 10 ^ {12} [/ latex] 1 billion can be written as 1000000000 or represented ASA [latex] 10 ^ 9 [/ latex]. As it would be 2 billion BEA represented? From 2 billion it is 2 times 1Ã billion, then 2 billion can be written as [latex] 2 \ times10 ^ 9 [/ latex]. Aa light-year is the number of miles light travels in one year, about 5,880,000,000,000. Ã ¢ thata's a lot of zeros, and it's easy to lose count when trying to understand the place of number.Ã value using scientific notation, the distance is [latex] 5.88 \ times10 ^ {12} [/ latex] miles. The exponent 12 tells us how many places to rely on the left of the decimal. Another example of scientific notation as can be made easier to read is the diameter of AA hydrogen atom, which is about 0.000000055 mm and scientific scientific Is [latex] 5 times10 ^ {- 8} [/ latex] Ã ¢ mm. In this case the [LATEX] -8 [/ LATEX] tells us how many places to act to the right of the decimal. Outlined in the box below are some important conventions of the scientific notation format. A positive number is written in scientific notation if it is written as [latex] a times10 ^ {n} [/ lathex] Ã ¢ where the coefficient aÃ ¢ is [latex] 1 leq {a}

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