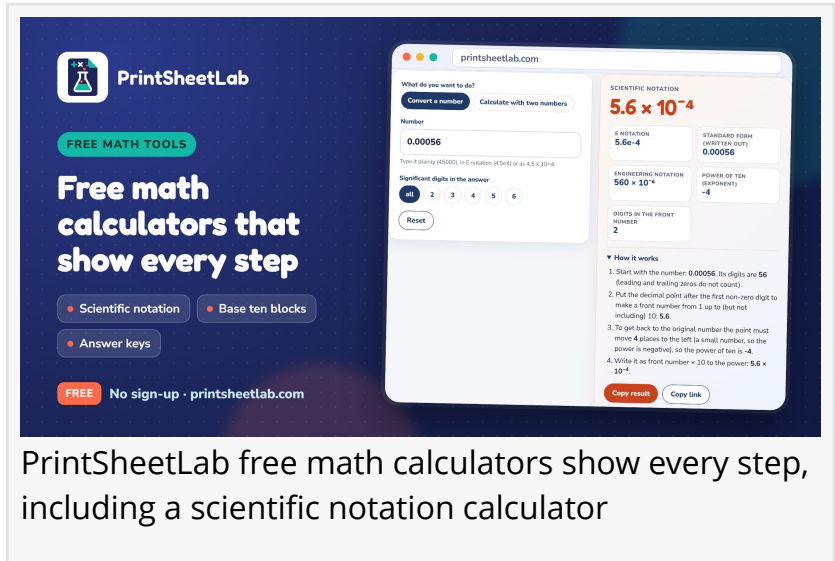


PrintSheetLab Adds Free Math Calculators That Show Every Step

A scientific notation calculator that shows each step joins true-size base ten blocks printables, free for students, parents and teachers with no sign-up.

DUBAI, UNITED ARAB EMIRATES, October 25, 2026 /EINPresswire.com/ -- [PrintSheetLab](https://PrintSheetLab.com), a free education website of printable worksheets and learning tools for preschool to grade 8, has added free math calculators that show every step of the working, including a [scientific notation calculator](#), and pairs them with a [base ten blocks printable](#) set for younger learners. Both tools are free for students, parents and teachers, and neither requires an account or sign-up.



PrintSheetLab free math calculators show every step, including a scientific notation calculator

The base ten blocks page offers cut-out blocks printed at a true 1 cm size, place value mats, worksheets with answer keys and virtual blocks that show regrouping on screen. The calculator page notes that students in the United States usually meet scientific notation in eighth grade.

How the Calculator Works

The scientific notation calculator has two modes. Convert a number returns a value's scientific notation, E notation, standard form written out in full, engineering notation and power of ten. Calculate with two numbers multiplies, divides, adds or subtracts and gives the answer in scientific notation with the working shown. Numbers can be typed as 45000, as 4.5e4 or as 4.5×10^4 , answers update as the number is typed, and an optional setting rounds the front number to between 2 and 6 significant digits.

A number in scientific notation is written as $a \times 10^n$, where a is at least 1 and less than 10 and n is a whole number. The decimal point moves until one non-zero digit sits in front of it, and the number of places moved becomes the power: positive for a large number, negative for a number below 1. For 45,000, the point moves 4 places left, so $45,000 = 4.5 \times 10^4$. For 0.00056,

the calculator's default example, it moves 4 places right, so $0.00056 = 5.6 \times 10^{-4}$, written 5.6e-4 in E notation.

In calculate mode, multiplying 4.5×10^4 by 4×10^{-2} multiplies the front numbers, $4.5 \times 4 = 18$, and adds the powers, $4 + (-2) = 2$, giving 18×10^2 . Because the front number must be below 10, the point moves one place left and the power rises by 1, so the answer is 1.8×10^3 , or 1,800.

E Notation and Handheld Calculators

The letter e in E notation means "times ten to the power of", so a screen showing 6.02E23 means 6.02×10^{23} . E notation can be typed straight into the converter, so the tool also works as a notation calculator for reading spreadsheet and calculator displays.

The page also covers the EE or EXP key on handheld calculators, so 4.5×10^4 is typed as 4.5, EE, 4. A powers of ten table follows the SI prefix list published by NIST, and exact constants include the speed of light, 2.99792458×10^8 m/s. A common mistakes table, six practice problems and a printable powers of ten chart round out the page.

How the Base Ten Blocks Work

On the base ten blocks page, buttons add hundreds, tens and ones to a virtual place value mat, and the number and its expanded form update. When more than nine ones are on the mat, a button labeled Trade 10 ones for 1 ten lights up, which the page explains is what carrying, or regrouping, means in addition. Break a ten into 10 ones shows borrowing in subtraction, and a Build a number game asks for a target number with the fewest blocks, making these free online base ten blocks a quick warm-up for paper.

A small cube, or unit, is one, a rod is ten, a flat of ten rods is one hundred, and a large cube of ten flats is one thousand. Three flats, four rods and seven units make 347, or $300 + 40 + 7$ in expanded form. The page warns about zeros: three flats and seven units with no rods make 307, not 37.

Printable Blocks and Worksheets

Every base ten blocks printable on the page is a ready PDF, or it can be opened with Customize to change the numbers, the answer format or the block size. The base ten blocks cut outs print at real size when "Actual size (1 cm)" is chosen, so each small square is 1 centimeter wide, the same as standard plastic sets, provided the page is printed at 100 percent with scaling off. The set also includes place value mats, one with a thousands column.

The free printable base ten blocks worksheets list the Common Core standard 1.NBT.B.2 and carry an answer key on page 2. Each base 10 blocks printable worksheet comes in one of three levels: numbers to 99 for grade 1, 100 to 399 for grade 2, and all 3-digit numbers to 999 for

grades 2 and 3. Answers can be written as the number, in a hundreds, tens and ones table, or in expanded form, and Draw the blocks sheets ask students to draw squares, lines and dots.

Everyday Calculators: Starbucks Calories

The same step-by-step approach runs through the site's everyday calculators. The free Starbucks calorie calculator at <https://printsheetlab.com/calculators/starbucks-calorie-calculator/> covers more than 200 drinks and foods. Once a drink is chosen, the size can be set to Tall, Grande or Venti and the milk, syrup pumps, whipped cream and shots changed, and the calories and sugar update straight away. On the page, a Grande Caffe Latte with 2% milk has 190 calories, a Grande Caramel Frappuccino has 380 and a Grande Cold Brew has 5. An Add to my day button keeps a running total against a calorie goal, and up to four versions of a drink can be compared side by side. The standard-recipe values are the nutrition figures Starbucks shows for its US menu. The page states that PrintSheetLab is not affiliated with Starbucks and that it offers general nutrition information, not medical or dietary advice.

Ways the Tools Can Be Used

At home, the scientific notation calculator can be used to check homework worked on paper, step by step. In a classroom, the powers of ten chart and SI prefix table can support lessons that connect math with science, and the base ten blocks printable sheets can be copied for a whole class. In a homeschool, the blocks can serve the early grades and the calculator later on, with answer keys for marking. In small groups such as tutoring sessions, the page's Race to 100 dice game can be played with printed blocks.

Related Free Resources

The fraction calculator at <https://printsheetlab.com/calculators/fraction-calculator/> adds, subtracts, multiplies, divides and compares fractions and mixed numbers with every step shown. The math worksheet generator at <https://printsheetlab.com/math-worksheet-generator/> makes addition, subtraction, multiplication and division worksheets with answer keys, with no sign-up or watermark. The homepage lists more than 70 calculators with the working shown, more than 2,000 worksheets with answer keys and more than 350 makers and generators.

"Many students can get an answer from a calculator but cannot explain how they got there," said Vicky, who runs PrintSheetLab. "Showing each step, and pairing the tools with worksheets that have answer keys, lets a parent or teacher check the method as well as the result."

Frequently Asked Questions

Is standard form the same as scientific notation?

In the United Kingdom, standard form means scientific notation, while in the United States it

usually means the ordinary written-out number. The calculator shows both versions side by side.

Can the scientific notation calculator handle zero and negative numbers?

Negative numbers work, and the sign stays on the front number, so -45,000 becomes -4.5×10^4 . Zero has no scientific notation form, because no power of ten turns zero into a number from 1 to 10, so it is simply written 0.

Are the tools free, and is an account needed?

Yes. Every base ten blocks printable, including the cut-out blocks, the mats and the worksheets, needs no account and prints on Letter or A4 paper, and the homepage states that the calculators are free, need no sign-up and work on phones.

About PrintSheetLab

PrintSheetLab is a free education website that publishes printable worksheets with answer keys for preschool to grade 8, step-by-step math calculators, learning games, and printable calendars and paper. It is created and maintained by Vicky. The site is free to use and does not require an account.

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