

Module 2 : The concept of congruence

Part A – Scientific notation

Scientific notation is used to display very large numbers or very small numbers. To enter a number in scientific notation use () and the $\times 10^x$.

(3 . 1 4 $\times 10^x$ 4) =

Calculator screen showing the input (3.14×10^4) and the result 31400. The screen also displays a small 'Math' icon and a right arrow.

Addition and subtraction with scientific notation are similar to other real numbers. Use () to separate the numbers.

(3 . 1 4 $\times 10^x$ 3) + (7 . 2 $\times 10^x$ 4) =

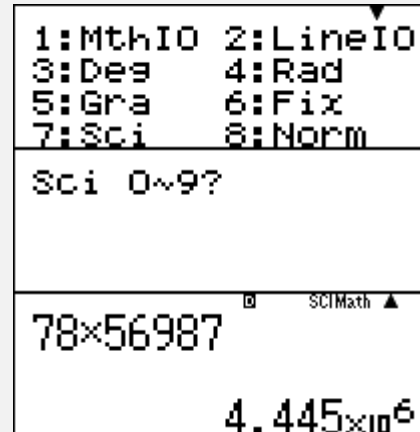
Calculator screen showing the addition of $(3.14 \times 10^3) + (7.2 \times 10^4)$. The screen displays the input, the result 75140, and a small 'Math' icon with a right arrow.

Multiplication and division are similar to addition and subtraction.
Remember to always use the ().

$(2.7 \times 10^3) \times (-5.3 \times 10^{-4})$
$(2.7 \times 10^3) \times (-5.3 \times 10^{-4})$
$(2.7 \times 10^3) \times (-5.3 \times 10^{-4})$ $= \frac{1431}{1000}$
$(2.7 \times 10^3) \times (-5.3 \times 10^{-4})$ $= -1.431$
$\frac{(2.7 \times 10^4)}{(3.6 \times 10^2)}$
$(2.7 \times 10^4) \div (3.6 \times 10^2)$
$(2.7 \times 10^4) \div (3.6 \times 10^2)$
$(2.7 \times 10^4) \div (3.6 \times 10^2)$ $= 75$

You must change SETUP to display solutions in scientific notation. For this example, we will use 4 to display 4 digits in our answers.

SHIFT **MODE** **7** **4** **7** **8** **X** **5** **6** **9**
8 **7** **=**



To return to normal display mode press.

SHIFT **MODE** **8** **1**

