Scientific Notation

For numbers greater than 1		For numbers less than 1	
300000000.0		0.00000250	
3.000000000	Put decimal point to the right of the first non-zero number	0000002.50	Put decimal point to the right of the first non-zero number
8 places $3.000000000 \times 10^{8}$	Count the number of places the decimal point moved left, use number as exponent $(\times 10^{\text{left places}})$ 10^{8}	6 places 0000002.5×10^{-6}	Count the number of places the decimal moved right, use as exponent $(\ldots \times 10^{\text{right places}})$ *note that it is a (-6) since initial number is less than one*
3.0×10^{8} *This value is the speed of light in m/s!*	This can now be expressed with two digits after removing extra zeros	2.5×10^{-6} *This is the average mass of an ant in kg!*	Drop the extra zeros

Adding/Subtracting		Multiplying/Dividing	
4.215×10^{-2} $+ 3.2 \times 10^{-4}$		$(3.4 \times 10^{6}) \times (4.2 \times 10^{3})$	
		$(3.4) \times (4.2) = 14.28$	Digit terms are multiplied/divided in the normal way
4.215×10^{-2} $+ 0.032 \times 10^{-2}$ 4.247	Convert all numbers to the same power of 10. Add/subtract digits	$10^{(6+3)} = 10^{9}$	Exponents are added for multiplication (subtracted for division)
4.247×10^{-2}	Put in scientific notation	14.28×10^{9}	Combine digits and exponent terms
		1.428×10^{10}	Put in scientific notation

Using the Calculator

Punch the digit number into your calculator

Push the EE or EXP button. Do **NOT** use the 'x' times button!

Enter the exponent number. Use +/- button to change sign.