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When dealing with really large or really small values, we use prefixes in the metric system. They are summarized on your formula sheet:

Prefixes Used with SI Units

real

"The physics theoretical, but the fun

Prefix	I Symbol	Exponentia Value
atto	a	10 ⁻¹⁸
femto	f	10 ⁻¹⁵
pico	p	10 ⁻¹²
nano	n	10 ⁻⁹
micro	µ	10 ⁻⁶
milli	m	10 ⁻³
centi	c	10 ⁻²
deci	d	10 ⁻¹
deka	da	10 ¹
hecto	h	10 ²
kilo	k	10 ³
mega	M	10 ⁶
giga	G	10 ⁹
tera	T	10 ¹²









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Significant Digits

We use significant digits (AKA "significant figures" if you're weird) because any measurement we take in physics has some amount of uncertainty (error). We want to make sure that the answer we end up getting isn't "more precise" than the numbers we measured to start with.

Significant Figures Video







