

## Absolute Uncertainty

$t=1.304\pm 0.005\text{s}$  means:

$x=7.58\pm 0.4\text{m}$  means: (?)

$m=3.92\text{kg}$  means:

3 significant digits

## Relative Uncertainty (in %)

$x=25\pm 2\text{m}$ , Calculate the Relative Uncertainty:

$t=340\pm 5\%$ : Calculate the Absolute Uncertainty:

## Scientific Notation

$560,000=$	$4.53\times 10^2\text{m}=$
$0.00035=$	$1.126\times 10^{-8}\text{s}=$

## Converting Units

How many km is it from here to Austin?  
Say it's about 90 miles.  $1\text{ mile}=1.609\text{ km}$ .

How many m/s is 55 miles/hour (mph)?

The German highway: A Bavarian in his fat BMW drives on the rural Autobahn at 195km/hour. A Cessna flies overhead at 120miles/hour. Who is going faster?