

Measurement Systems

Complete the following sentences

1. If a person measures an 8 foot board the dimension of the measurement is the _____.
2. If a person measures an 8 foot board the units of the measurement are _____.
3. In your own words tell the difference between units and dimensions.
4. The SI System was agreed on in 1960 by an _____.
5. A base unit is: _____.
6. There are 7 fundamental SI dimensions, the three will use the most are remembered by the letters MKS which stand for :
 _____, _____, _____.

Complete the table below

Prefix	Abbreviation	Power of 10	Equivalent
	G		billion
mega-			million
	k		thousand
		10^2	hundred
deka			ten
<i>Base</i>	-----	-----	-----
deci-			tenth
		10^{-2}	hundredth
	m		thousandth
	μ		millionth
nano-			billionth

The SI system

For Each base quantity on the left, write the matching base unit and the matching symbol

			Base Unit	Symbol
1.	_____	_____ length	ampere	cd
2.	_____	_____ mass	candela	kg
3.	_____	_____ time	kelvin	m
4.	_____	_____ temperature	kilogram	mol
5.	_____	_____ amount of a substance	meter	s
6.	_____	_____ electric current	mole	A
7.	_____	_____ luminous intensity	second	K