

International inch	=	2.54cm = 127/50	> 1968 in US+UK
International foot	=	30.48cm = 762/25	> 1968 in US+UK
US survey foot	=	1200/3937m	> 1866 in US
angstrom (A)	=	0.1nm	
International pound	=	453.592 37gm	
troy pound	≈	373.241 7216gm	
metric carat	=	200mg	> 1907 world wide
US Gallon (wet)	≈	3.785 411 784L	≈8.3lb H ₂ O, =231 international.inches ³
US Gallon (dry)	≈	4.404 76L	
UK Gallon (avoir)	=	4.546 09L	≈10lb H ₂ O, ≈277.42 international.inches ³
US barrel oil	=	42 US Gallons	
US barrel	=	31.5 US Gallons	
Btu _{IT}	=	1 055.055 852 62J	International Table

mile	furlong	chain	rod	fathom	yard	foot	finger	hand	palm	nail	inch	barleycorn	digit	mil
1	8	80	320	880	1760	5280								
$\frac{1}{8}$	1	10	40	110	220	660	1760	1980	3300	3520	7920	2640	10560	
		1	4	11	22	66	176	198	330	352	792	264	1056	
		$\frac{1}{4}$	1	$2\frac{3}{4}$	$5\frac{1}{2}$	$16\frac{1}{2}$	44	$49\frac{1}{2}$	$82\frac{1}{2}$	88	198	66	264	
			$\frac{1}{2}$	1	2	6	16	18	30	32	72	24	96	7200
			$\frac{1}{4}$	$\frac{1}{2}$	1	3	8	9	15	16	36	12	48	3600
				$\frac{1}{6}$	$\frac{1}{3}$	1	$2\frac{2}{3}$	3	5	$5\frac{1}{2}$	12	4	16	1200
					$\frac{1}{8}$	$\frac{3}{8}$	1	$1\frac{1}{8}$		2	$4\frac{1}{2}$	$1\frac{1}{2}$	6	450
						$\frac{1}{3}$		1	$1\frac{2}{3}$		4	$\frac{4}{3}$	$5\frac{1}{2}$	400
						$\frac{1}{5}$		$\frac{3}{5}$	1		$2\frac{2}{5}$	$\frac{4}{5}$	$3\frac{1}{5}$	240
										1	$2\frac{1}{4}$	$\frac{3}{4}$	3	200
								$\frac{1}{4}$			1	$\frac{1}{3}$	$\frac{3}{4}$	100

Long ton	Short ton	Long cwt	Short cwt	stone	pound	oz wt	dram	grain
1		20	$22\frac{2}{5}$	160	2240			
	1		20		2000			
		1		8	112	1792		
			1		100	1600		
				1	14	224	3584	
					1	16	256	7000
						1	16	$437\frac{1}{2}$

Troy Pound	Troy Ounce	Apotho dram	Troy pennyweight	Apotho scruple	grain
1	12	96	240	288	5760
	1	8	20	24	480
	$\frac{1}{8}$	1	$2\frac{1}{2}$	3	60
		$\frac{2}{5}$	1	$1\frac{1}{5}$	24
				1	20

gallon	fifth	quart	pint	cup	gill	US fl oz	UK fl oz
1	5	4	8	16	32	128	160
$\frac{1}{4}$	$1\frac{1}{4}$	1	2	4	8	32	40
$\frac{1}{8}$		$\frac{1}{2}$	1	2	4	16	20
		$\frac{1}{4}$	$\frac{1}{2}$	1	2	8	10
		$\frac{1}{8}$	$\frac{1}{4}$	$\frac{1}{2}$	1	4	5

fluid ounce	spoons			fl dram	fl scruple
	table	dessert	tea		
1	2	3	6	8	24
$\frac{1}{2}$	1	$\frac{3}{2}$	3	4	12
$\frac{1}{3}$	$\frac{2}{3}$	1	2	$2\frac{1}{3}$	8
$\frac{1}{6}$	$\frac{1}{3}$	$\frac{1}{2}$	1	$1\frac{1}{3}$	4
$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{3}{4}$	1	3

barrel	kilderkin	firkin
1	2	4
	1	2

Dry Volume Ratios				
barrel	bushel	peck	gallon	quarts
1		$13\frac{1}{8}$	$26\frac{1}{4}$	105
	1	4	8	32
		1	2	8
			1	4

Traditional Time Ratios (1yr=365days)						
year	fortnight	week	day	hour	minute	second
1	26	52	365	6360		
	1	2	14	336	20160	
	$\frac{1}{2}$	1	7	168	10080	
		$\frac{1}{7}$	1	24	1440	86400
			$\frac{1}{6}$	4	240	14400
				1	60	3600
					1	60

Binary Prefixes			SI Prefixes (big)				SI Prefixes (small)			
			yotta	Y	10^{24}	septillion	yocto	y	10^{-24}	septillionth
			zetta	Z	10^{21}	sextillion	zepto	z	10^{-21}	sextillionth
exbi	Ei	2^{60}	exa	E	10^{18}	quintillion	atto	a	10^{-18}	quintillionth
pebi	Pi	2^{50}	peta	P	10^{15}	quadrillion	femto	f	10^{-15}	quadrillionth
tebi	Ti	2^{40}	tera	T	10^{12}	trillion	pico	p	10^{-12}	trillionth
gibi	Gi	2^{30}	giga	G	10^9	billion	nano	n	10^{-9}	billionth
mebi	Mi	2^{20}	mega	M	10^6	million	micro	μ	10^{-6}	millionth
kibi	Ki	2^{10}	kilo	k	10^3	thousand	milli	m	10^{-3}	thousandth
			hecto	h	10^2	hundred	centi	c	10^{-2}	hundredth
			deca	da	10^1	ten	deci	d	10^{-1}	tenth

Gas Point	F	C	Kelvin	Rankine	Reaumur	
		-273.16	0	0		Absolute Zero
	32	0	273.15	491.67	0	H ₂ O Freezes
		4				H ₂ O density=999.972 kg/m ³
	0			459.67		
		20				
	60					H ₂ O density= 999.001 kg/m ³
	212	100			80	H ₂ OBoils @ STP
$\frac{1}{4}$	225	110				
$\frac{1}{2}$	250	130				
1	275	140				
2	300	150				
3	325	170				
4	350	180				
5	375	190				
6	400	200				
7	425	220				
8	450	230				
9	475	240				

$K = \frac{5Ra}{9} = \frac{5463C}{20} = \frac{5463}{20} + \frac{5(F-32)}{9}$	
$C = \frac{5(F-32)}{9}$	$F = \frac{9C}{5} + 32$