

Definition: Orders of Magnitude

<i>In words (long scale)</i>	<i>In words (short scale)</i>	<i>Prefix (Symbol)</i>	<i>Decimal</i>	<i>Power of Ten</i>	<i>Order of magnitude</i>
quadrillionth	septillionth	yocto- (y)	0.000000000000000000000001	10 <sup>-24</sup>	-24
trilliardth	sextillionth	zepto- (z)	0.000000000000000000000001	10 <sup>-21</sup>	-21
trillionth	quintillionth	atto- (a)	0.00000000000000000000001	10 <sup>-18</sup>	-18
billiardth	quadrillionth	femto- (f)	0.000000000000000001	10 <sup>-15</sup>	-15
billionth	trillionth	pico- (p)	0.0000000000001	10 <sup>-12</sup>	-12
milliardth	billionth	nano- (n)	0.000000001	10 <sup>-9</sup>	-9
millionth	millionth	micro- (μ)	0.000001	10 <sup>-6</sup>	-6
thousandth	thousandth	milli- (m)	0.001	10 <sup>-3</sup>	-3
hundredth	hundredth	centi- (c)	0.01	10 <sup>-2</sup>	-2
tenth	tenth	deci- (d)	0.1	10 <sup>-1</sup>	-1
one	one		1	10 <sup>0</sup>	0
ten	ten	deca- (da)	10	10 <sup>1</sup>	1
hundred	hundred	hecto- (h)	100	10 <sup>2</sup>	2
thousand	thousand	kilo- (k)	1000	10 <sup>3</sup>	3
million	million	mega- (M)	1000000	10 <sup>6</sup>	6
milliard	billion	giga- (G)	1000000000	10 <sup>9</sup>	9
billion	trillion	tera- (T)	10000000000000	10 <sup>12</sup>	12
billiard	quadrillion	peta- (P)	1000000000000000	10 <sup>15</sup>	15
trillion	quintillion	exa- (E)	1000000000000000000	10 <sup>18</sup>	18
trilliard	sextillion	zetta- (Z)	1000000000000000000000	10 <sup>21</sup>	21
quadrillion	septillion	yotta- (Y)	1000000000000000000000000	10 <sup>24</sup>	24