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# Weights And Measures - REA's Quick Access Reference Chart (Quick Access Reference Charts)

FAST FACTS REVIEW

Quick Access

WEIGHTS & MEASURES

SYSTEM INTERNATIONAL UNITS (SI) – Base units

Quantity	Name	Symbol
Length	metre	m
Mass	kilogram	kg
Time	second	s
Electricity	ampere	A
Temperature	Kelvin	K
Force	newton	N
Amount of substance	mole	mol
Energy	joule	J

SI UNIT PREFIXES

Prefix	Symbol	Factor	Factor	Symbol	Symbol
10 <sup>12</sup>	trillion	1	10 <sup>9</sup>	billion	b
10 <sup>9</sup>	million	1	10 <sup>6</sup>	thousand	k
10 <sup>6</sup>	thousand	1	10 <sup>3</sup>	hundred	h
10 <sup>3</sup>	thousand	1	10 <sup>2</sup>	hundred	h
10 <sup>2</sup>	hundred	1	10 <sup>1</sup>	ten	10
10 <sup>1</sup>	ten	1	10 <sup>0</sup>	one	1
10 <sup>-1</sup>	one-tenth	1	10 <sup>-2</sup>	one-hundredth	1/100
10 <sup>-2</sup>	one-hundredth	1	10 <sup>-3</sup>	one-thousandth	1/1000
10 <sup>-3</sup>	one-thousandth	1	10 <sup>-6</sup>	one-millionth	1/1,000,000
10 <sup>-6</sup>	one-millionth	1	10 <sup>-9</sup>	one-billionth	1/1,000,000,000
10 <sup>-9</sup>	one-billionth	1	10 <sup>-12</sup>	one-trillionth	1/1,000,000,000,000

LENGTH – METRIC – measure and conversion

Unit	Abbreviation	Equivalent
metre	m	—
centimetre	cm	100 to 1
millimetre	mm	1,000 to 1
micrometre	µm	1,000,000 to 1

LENGTH – METRIC – measure and conversion

Unit	Abbreviation	Equivalent
metre	m	—
centimetre	cm	100 to 1
millimetre	mm	1,000 to 1
micrometre	µm	1,000,000 to 1
nanometre	nm	1,000,000,000 to 1
kilometre	km	1,000 to 1
megametre	Mm	1,000,000 to 1
gigametre	Gm	1,000,000,000 to 1
terrametre	Tm	1,000,000,000,000 to 1
pettametre	Pm	1,000,000,000,000,000 to 1
exagram	Ex	1,000,000,000,000,000,000 to 1
zeptogram	Ze	1,000,000,000,000,000,000,000 to 1
yoctogram	Yo	1,000,000,000,000,000,000,000,000 to 1

LENGTH – METRIC – METRIC CONVERSIONS

From	To	Conversion
cm	m	cm ÷ 100 = m
m	cm	m × 100 = cm
mm	m	mm ÷ 1,000 = m
m	mm	m × 1,000 = mm
µm	m	µm ÷ 1,000,000 = m
m	µm	m × 1,000,000 = µm
nm	m	nm ÷ 1,000,000,000 = m
m	nm	m × 1,000,000,000 = nm

MASS – METRIC – measure and conversion

Unit	Abbreviation	Equivalent
kilogram	kg	—
gram	g	1,000 to 1
milligram	mg	1,000 to 1

WEIGHT – NONMETRIC – measure and conversion

Unit	Abbreviation	Equivalent
ounce	oz	—
pound	lb	16 to 1
stone	st	14 to 1
ton	ton	2,240 to 1
metric ton	—	1,000 to 1

MASS-WEIGHT CONVERSIONS

From	To	Conversion
g	oz	g ÷ 28.35 = oz
oz	g	oz × 28.35 = g
kg	lb	kg ÷ 2.205 = lb
lb	kg	lb × 0.454 = kg
kg	ton	kg ÷ 1,000 = ton
ton	kg	ton × 1,000 = kg

AREA – METRIC – measure and conversion

Unit	Abbreviation	Equivalent
square metre	m <sup>2</sup>	—
square centimetre	cm <sup>2</sup>	10,000 to 1
hectare	ha	100,000 to 1
square kilometre	km <sup>2</sup>	1,000,000 to 1

AREA – NONMETRIC – measure and conversion

Unit	Abbreviation	Equivalent
square inch	in <sup>2</sup>	—
square foot	ft <sup>2</sup>	144 to 1
square yard	yd <sup>2</sup>	9 to 1
acre	ac	4,840 to 1
square mile	mi <sup>2</sup>	270,725 to 1

AREA – METRIC – METRIC CONVERSIONS

From	To	Conversion
cm <sup>2</sup>	m <sup>2</sup>	cm <sup>2</sup> ÷ 10,000 = m <sup>2</sup>
m <sup>2</sup>	cm <sup>2</sup>	m <sup>2</sup> × 10,000 = cm <sup>2</sup>
mm <sup>2</sup>	m <sup>2</sup>	mm <sup>2</sup> ÷ 1,000,000 = m <sup>2</sup>
m <sup>2</sup>	mm <sup>2</sup>	m <sup>2</sup> × 1,000,



## Synopsis

Fast Facts at Your Fingertips! REA's Quick Access Study Charts contain all the information students, teachers, and professionals need in one handy reference. They provide quick, easy access to important facts. The charts contain commonly used mathematical formulas, historical facts, language conjugations, vocabulary and more! Great for exams, classroom reference, or a quick refresher on the subject. Most laminated charts consist of 2 fold-out panels (4 pages) that fit into any briefcase or backpack. Each chart has a 3-hole punch for easy placement in a binder. Each chart measures 8 1/2" x 11"

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