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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) – Your units

Quantity	Name	Symbol
Length	metre	m
Mass	kilogram	kg
Time	second	s
Force	newton	N
Energy	joule	J
Power	watt	W
Temperature	kelvin	K
Amount of substance	mole	mol
Luminous intensity	candela	cd

US METRIC PREFIXES

Prefix	Symbol	Symbol	Prefix	Symbol	Symbol
10 ¹²	trillion	T	10 ⁹	billion	B
10 ⁹	million	M	10 ⁶	thousand	k
10 ⁶	million	M	10 ³	thousand	k
10 ³	thousand	k	10 ²	hundred	h
10 ²	hundred	h	10 ¹	ten	da
10 ¹	ten	da	10 ⁰	one	1
10 ⁻¹	one-tenth	d	10 ⁻²	one-hundredth	h
10 ⁻²	one-hundredth	h	10 ⁻³	one-thousandth	m
10 ⁻³	one-thousandth	m	10 ⁻⁶	one-millionth	μ
10 ⁻⁶	one-millionth	μ	10 ⁻⁹	one-billionth	n
10 ⁻⁹	one-billionth	n	10 ⁻¹²	one-trillionth	p

LENGTH – METRIC – measure and convert (m)

Unit	Abbreviation	Equivalent
metre	m	—
centimetre	cm	0.01 m
millimetre	mm	0.001 m
micrometre	μm	0.0001 m

LENGTH – NONMETRIC – measure and convert (ft/in)

Unit	Abbreviation	Equivalent
foot	ft	—
inch	in	1/12 ft
yard	y	3 ft
fathom	f	6 ft
league	—	3 miles
mile	mi	1,760 y
nautical mile	nmi	approx. 1.15 mi
league	—	3 mi
league	—	approx. 3.45 nmi
league	—	approx. 3.45 nmi

LENGTH – METRIC-NONMETRIC CONVERSIONS

From	To	Conversion
cm	in	cm ÷ 2.54 = in
in	cm	in × 2.54 = cm
ft	m	ft × 0.3048 = m
m	ft	m × 3.281 = ft
yd	m	yd × 0.9144 = m
m	yd	m ÷ 0.9144 = yd

MASS – METRIC – measure and convert (g)

Unit	Abbreviation	Equivalent
gram	g	—
100 grams	cg	0.01 g
1 kilogram	kg	1,000 g

WEIGHT – NONMETRIC – measure and convert (lb and pounds force)

Unit	Abbreviation	Equivalent
ounce	oz	—
pound	lb	16 oz
stone	st	14 lb
ton	ton	2,000 lb
tonne (metric ton)	—	2,205 lb

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 ÷ 2,205 = ton
ton	kg	ton × 2,205 = kg

AREA – METRIC – measure and convert (m²)

Unit	Abbreviation	Equivalent
square metre	m ²	—
square centimetre	cm ²	0.0001 m ²
hectare	ha	10,000 m ²
are	a	100 m ²
square kilometre	km ²	1,000,000 m ²

AREA – NONMETRIC – measure and convert (sq ft, sq yd, sq in, sq mi, sq ft, sq yd, sq in)

Unit	Abbreviation	Equivalent
square inch	in ²	—
square foot	ft ²	144 in ²
square yard	yd ²	9 ft ²
acre	ac	4,840 yd ²
square mile	mi ²	363,600 ac

AREA – METRIC-NONMETRIC CONVERSIONS

From	To	Conversion
cm ²	in ²	cm ² ÷ 6.452 = in ²
in ²	cm ²	in ² × 6.452 = cm ²
ft ²	m ²	ft ² × 0.093 = m ²
m ²	ft ²	m ² × 10.764 = ft ²
km ²	mi ²	km ² × 0.386 = mi ²
mi ²	km ²	mi ² × 2.59 = km ²
ha	ac	ha × 2.471 = ac
ac	ha	ac × 0.405 = ha

VOLUME

Unit	Abbreviation	Equivalent
litre	l	—
millilitre	ml	0.001 l
hectolitre	hl	100 l
decilitre	dl	0.1 l
centilitre	cl	0.01 l

SPEED – METRIC – measure and convert (metres per second (m/s), kilometres per hour (km/h))

Unit	Abbreviation	Equivalent
metres per second	m/s	—
kilometres per hour	km/h	0.278 m/s

Research & Medicine Association – For complete list of facts, visit www.rmaconcept.com



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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