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

FAST FACTS REVIEW

Quick Access

WEIGHTS & MEASURES

SYSTEMS INTERNATIONALLY DIMENSION (SI) - Base units

Quantity	Name	Symbol
Length	meter	m
Mass	kilogram	kg
Temperature	kelvin	K
Time	second	s
Force	newton	N
Energy	joule	J
Power	watt	W
Volume	cubic meter	m ³
Area	square meter	m ²

NONMETRIC PREFIXES

Prefix	Symbol	Factor	From	To	Symbol
giga	G	10 ⁹	kg	g	kg × 1000 = g
mega	M	10 ⁶	kg	g	kg × 1000 = g
kilo	k	10 ³	kg	g	kg × 1000 = g
hecto	h	10 ²	kg	g	kg × 1000 = g
deca	da	10 ¹	kg	g	kg × 1000 = g
deci	d	10 ⁻¹	kg	g	kg × 1000 = g
centi	c	10 ⁻²	kg	g	kg × 1000 = g
milli	m	10 ⁻³	kg	g	kg × 1000 = g
micro	μ	10 ⁻⁶	kg	g	kg × 1000 = g
nano	n	10 ⁻⁹	kg	g	kg × 1000 = g
pico	p	10 ⁻¹²	kg	g	kg × 1000 = g
femto	f	10 ⁻¹⁵	kg	g	kg × 1000 = g
atto	a	10 ⁻¹⁸	kg	g	kg × 1000 = g
zepto	z	10 ⁻²¹	kg	g	kg × 1000 = g
yocto	y	10 ⁻²⁴	kg	g	kg × 1000 = g

LENGTH - METRIC - conversion with units in feet

Unit	Abbreviation	Equivalent
meter	m	3.2808 ft
centimeter	cm	0.3937 in
millimeter	mm	0.0394 in
micrometer	μm	0.000394 in

LENGTH - NONMETRIC - conversion with units in feet

Unit	Abbreviation	Equivalent
foot	ft	0.3048 m
inch	in	0.0254 m
yard	y	0.9144 m
mile	mi	1.6093 km
nautical mile	nmi	1.852 km
league	lea	3.0 nmi
rod	rd	5.0292 m
furrow	fur	201.17 m
chain	ch	201.17 m
link	li	0.20117 m
hand	h	0.1016 m
span	sp	0.254 m
pace	pa	0.762 m
ell	el	0.6858 m
arm	ar	0.6858 m

LENGTH - METRIC-NONMETRIC CONVERSIONS

From	To	Conversion
cm	in	cm ÷ 2.54 = in
mm	in	mm ÷ 25.4 = in
in	cm	in × 2.54 = cm
ft	m	ft × 0.3048 = m
yd	m	yd × 0.9144 = m
mi	km	mi × 1.6093 = km
nmi	km	nmi × 1.852 = km
lea	km	lea × 3.0 = km
rd	m	rd × 5.0292 = m

MASS - METRIC - conversion with units in pounds

Unit	Abbreviation	Equivalent
kg	kg	2.2046 lb
g	g	0.0022046 lb
mg	mg	0.0000022046 lb
μg	μg	0.0000000022046 lb

WEIGHT - NONMETRIC - conversion with units in feet and pounds (lb)

Unit	Abbreviation	Equivalent
kg	kg	2.2046 lb
g	g	0.0022046 lb
mg	mg	0.0000022046 lb
μg	μg	0.0000000022046 lb
ton	ton	2240 lb

MASS-WEIGHT CONVERSIONS

From	To	Conversion
kg	lb	kg × 2.2046 = lb
g	lb	g ÷ 453.592 = lb
mg	lb	mg ÷ 453,592 = lb
μg	lb	μg ÷ 453,592 = lb
ton	lb	ton × 2240 = lb

AREA - METRIC - conversion with units in feet

Unit	Abbreviation	Equivalent
square meter	m ²	10.7639 sq ft
square centimeter	cm ²	1.55 sq in
square millimeter	mm ²	0.00155 sq in
square micrometer	μm ²	0.00000155 sq in

AREA - NONMETRIC - conversion with units in feet

Unit	Abbreviation	Equivalent
square foot	sq ft	0.0929 m ²
square inch	sq in	0.000645 m ²
square yard	sq yd	0.8361 m ²
square mile	sq mi	2.59 sq km

AREA - METRIC-NONMETRIC CONVERSIONS

From	To	Conversion
cm ²	sq in	cm ² ÷ 6.4516 = sq in
mm ²	sq in	mm ² ÷ 645.16 = sq in
μm ²	sq in	μm ² ÷ 645,160 = sq in
in ²	cm ²	in ² × 6.4516 = cm ²
sq in	cm ²	sq in × 6.4516 = cm ²
sq ft	m ²	sq ft × 0.0929 = m ²
sq yd	m ²	sq yd × 0.8361 = m ²
sq mi	km ²	sq mi × 2.59 = km ²
sq nmi	km ²	sq nmi × 3.43 = km ²
sq lea	km ²	sq lea × 12.15 = km ²

TIME

Unit	Abbreviation	Equivalent
second	s	1/60 min
minute	min	1/60 hr
hour	hr	1/24 day
day	day	1/7 week

SPEED - METRIC - conversion with units in feet per second

Unit	Abbreviation	Equivalent
ft/s	ft/s	0.3048 m/s
m/s	m/s	3.2808 ft/s
km/h	km/h	0.27778 m/s

Research & Education Association - For complete information, visit www.rea.com/quickaccess

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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