

Multiply: **by:** **to get:** **Multiply:** **by:** **to get:**

ACCELERATION

feet/sec ²	X	0.3048	=	meters/sec ² (m/s ²)	X	3.281	=	feet/sec ²
inches/sec ²	X	0.0254	=	meters/sec ² (m/s ²)	X	39.37	=	inches/sec ²

ENERGY OR WORK (Watt-second = joule = newton-meter)

foot-pounds	X	1.3558	=	joules (J)	X	0.7376	=	foot-pounds
calories	X	4.187	=	joules (J)	X	0.2388	=	calories
Btu	X	1055	=	joules (J)	X	0.000948	=	Btu
watt-hours	X	3600	=	joules (J)	X	0.0002778	=	watt-hours
kilowatt-hrs	X	3.600	=	megajoules (MJ)	X	0.2778	=	kilowatt-hrs

FUEL ECONOMY & FUEL CONSUMPTION

miles/gal	X	0.42514	=	kilometers/liter(km/l)	X	2.3522	=	miles/gal
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Note:

235.2/(mi/gal) = liters/100km

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PRESSURE OR STRESS

inches Hg (60F)	X	3.377	=	kilopascals (kPa)	X	0.2961	=	inches Hg
pounds/sq in.	X	6.896	=	kilopascals (kPa)	X	0.145	=	pounds/sq in

POWER

horsepower	X	0.746	=	kilowatts (kW)	X	1.34	=	horsepower
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TORQUE

pound-inches	X	0.11298	=	newton-meters (N-m)	X	8.851	=	pound-inches
pound-feet	X	1.3558	=	newton-meters (N-m)	X	0.7376	=	pound-feet
pound-inches	X	0.0115	=	kilogram-meters (Kg-M)	X	87	=	pound-inches
pound-feet	X	0.138	=	kilogram-meters (Kg-M)	X	7.25	=	pound-feet

VELOCITY

miles/hour	X	1.6093	=	kilometers/hour(km/h)	X	0.6214	=	miles/hour
kilometers/hr	X	0.27778	=	meters/sec (m/s)	X	3.600	=	kilometers/hr

COMMON METRIC PREFIXES

mega (M)	=	1,000,000	or	10 ⁶	centi (c)	=	0.01	or	10 ⁻²
kilo (k)	=	1,000	or	10 ³	milli (m)	=	0.001	or	10 ⁻³
hecto (h)	=	100	or	10 ²	micro (μ)	=	0.000,001	or	10 ⁻⁶