

Conversion Factors for Force and Weight

The below information is reproduced from the extensive reference section of the website
<http://home.mchsi.com/~gweidner/site>.

Terms and Abbreviations

g = gram
 J = joule
 k = kilo = prefix meaning 1000
 kg = kilogram
 km = kilometer
 lb = pound
 m = meter
 N = newton
 oz = ounce

Notes on using the charts

- To get the reverse of any conversion, divide 1.0 by the conversion factor. For example, the factor to convert "kg to lb" is 2.2046, so the factor to convert "lb to kg" is $1/2.2046 = 0.4536$
- If you cannot find a particular conversion (suppose, for example "kg to lb"), try looking for the reverse conversion ("lb to kg"). If you find the reverse conversion, divide it into 1.0 to get the conversion you need.

"Weight" can relate to a quantity called "mass," but in this chart, "weight" is the same thing as "force."

MULTIPLY	BY	TO OBTAIN
dynes	0.001020	g
dynes	0.000,01	N
J/m	1.0	N
kg	1000.0	grams
kg	9.8067	N
kg	35.2740	oz
kg	2.2046	lb
kg	0.0010	metric tons
N	100,000	dynes
N	101.9716	g
N	3.5969	oz
N	0.2248	lb
N	1.0	J/m
oz	0.2780	N
oz	0.02835	kg
oz	0.2780	N
lb	444,822.1659	dynes
lb	4.4482	N
lb	0.4536	kg
lb	16	oz
lb	0.00050	tons
metric tons	1000	kg
metric tons	9806.650	N
metric tons	2204.6226	lb
tons	2000	lb
tons	0.9072	metric tons