

Avoirdupois (avdp) Weight (Commercial)

1 pound (lb)	=16 ounces	= 7000 grains
1 ounce (oz)	=16 drams (dr)	= 437.5 grains exactly
1 short hundred weight (cwt)		= 100 pounds
1 long hundred weight (gross cwt)		= 112 pounds
1 short ton (tn)		= 2000 pounds
1 long ton (gross tn)		= 2240 pounds

Apothecaries Weight

1 scruple (s ap)	= 20 grains	
1 dram (dr ap)	= 3 scruples	= 60 grains
1 ounce (oz ap)	= 8 drams	= 480 grains
1 pound (lb ap)	= 12 ounces	= 5760 grains

Troy Weight

1 pennyweight (dwt)	= 24 grains	
1 ounce (oz t)	= 20 pennyweight	= 480 grains
1 pound (lb t)	= 12 ounces	= 5760 grains

Dry Measure

1 U.S. bushel (bu)	= 2150.42 cubic inches (in ³)	
(British Imperial bushel)	= 1.0321 U.S. bushels)	
1 U.S. bushel	= 4 pecks	
1 peck (pk)	= 4 quarts	= 16 pints (pt)
1 quart (qt)	= 2 pints	

Cubic Measure

1 cubic yard (yd ³)	= 27 cubic feet	
1 cubic foot (ft ³)	= 1728 cubic inches(in ³)	
1 board foot	= 144 cubic inches - 1/12 cubic foot	
1 cord (cd)	= 128 cubic feet	

Avoirdupois - Metric Weight Equivalent

Avoirdupois (commercial)		Metric
1 grain	= 0.0648 gram (g)	= 6.4 milligrams (mg)
1 ounce (oz)	= 28.35 grams	
1 pound (lb)	= 0.454 kilogram (kg)	= 454 grams
1 short ton	= 0.907 metric ton (t)	= 907 kilograms
1 long ton	= 1.016 metric ton	= 1016 kilograms

Metric - Avoirdupois Weight Equivalents

Metric	Avoirdupois (commercial)	
1 gram (g)	= 15.432 grains	
1 gram	= 0.035 ounces (oz)	
1 kilogram (kg)	= 2.205 pounds	=35.274 ounces
1 metric ton (t)	= 1.102 short ton (t)	=2205 pounds (lb)
1 metric ton	=0.984 long ton (gross tn)	= 2205 pounds

Area or Surface	
1 square foot (ft ²)	= 144 square inches (in ²)
1 square yard (yd ²)	= 1.296 square inches
1 acre	= 43.560 square feet

Length Measures		
1 foot (ft)	= 12 inches (in)	
1 yard (yd)	= 3 feet	= 36 inches
1 mile (mi)	5280 feet	
1 chain (ch) (Gunter's or surveyor's)	= 66 feet	

Capacities or Volumes

Liquid Measure	
1 U.S. gallon (gal)	=231 cubic inches exactly
(1 British Imperial gallon)	= 1.201 U.S. gallons)
60 minims	= 1 fluid dram
8 fluid drams (fl dr)	= 1 fluid ounce
4 fluid ounces (fl oz)	= 1 gill

4 gills (gi)	= 1 pint	= 16 fluid ounces
2 pints (pt)	= 1 quart	= 32 fluid ounces
4 quarts (qt)	= 1 gallon	

Troy-Apothecaries-Avoirdupois-Metric-Weight Equivalents

1 pound troy or apothecaries	= 0.823 pounds avoirdupois	
	= 373.2 grams	
1 ounce troy or apothecaries	= 1.097 ounce avoirdupois	
	= 31.103 grams	
1 grain troy	= 1 grain apothecaries	= 1 grain avdp
	= 0.065 gram	
1 pound avoirdupois	= 1.2153 pound troy or apothecaries	
1 ounce avoirdupois	= 0.9115 ounce troy or apothecaries	
1 kilogram (kg)	= 2.6792 pounds troy or apothecaries	
1 gram (g)	= 0.0322 ounce troy or apothecaries	

Metric-U.S. Customary Length Equivalents (1 inch = 25.4 millimeters exactly)

Metric		Customary
1 millimeter (mm)	= 0.001 meter	= 0.03937 inch
1 centimeter (cm)	= 10 millimeters	= 0.3937 inch
1 decimeter (dm)	= 10 centimeters	= 3.937 inches
1 meter (m)	= 10 decimeters	= 39.37 inches
1 dekameter (dam)	= 10 meters	= 32.808 feet
1 kilometer (km)	= 1000 meters	= 0.6 mile