

**Comparative Weights** and Measures

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**TROY WEIGHT**

Used in weighing the precious metals.

24 grains	1 pennyweight
20 pennyweights (dwt)	1 ounce troy
12 ounces	1 pound troy
5760 grains	1 pound troy

The troy is about 10% heavier than the Commonly used avoirdupois ounce.  
Avoirdupois ounces x 0.9115 = troy ounces.

**AVOIRDUPOIS WEIGHT**

Used in weighing the base metals.

27-1/3 grains	1 dram (or drahms)
16 drams	1 ounce avoirdupois
16 ounces	1 pound
16 ounces	700 grains

the avoirdupois pound is about 21 1/2% heavier than the troy pound.  
Troy ounces x 1.0971 = avoirdupois ounces.

**GRAM WEIGHT**

1 gram	= 15.432 grains troy	31.104 grams	= 1 ounce troy
1.555 grams	= 1 pennyweight dwt.	28.35 grams	= 1 ounce avoirdupois

**CARAT WEIGHT**

Used in weighting precious stones and semi-precious gemstones.

1 carat	= 3.086 grains troy	1 carat	= 0.20 grams
1 carat	= 0.007 ounce avoirdupois	1 carat	= 5 carats

The carat is further divided into points for simple measurement.

1 carat	= 100 points	1/4 carat	= 25 points
1/2 carat	= 50 points	1/8 carat	= 12.5 points

**FLUID MEASUREMENT**

1 ounce (fluid) = 29.57 cubic centimetres - 1.8 cubic inches.  
1 dram = 1/2 ounces (fluid) = 1.85 cubic centimetres.  
1 quart = 32 ounces (fluid) = 2 pints = 1/4 gallon = 57 cubic inches.  
1 gallon = 4 quarts = 128 ounces (fluid) = 3.78 litres.  
1 litre = 1000cc (slightly more than 1 quart U.S. ) = 0.264 U.S. gallons.  
1 imperial gallon = 1.2 U.S. gallons = 4.59 liters = 277.27 cubic inches.

**TEMPERATURE**

To convert :

Fahrenheit to Centigrade (Celsius) = Subtract 32 from degrees Fahrenheit, multiply remainder by 5, divide the product by 9.

Centigrade to Fahrenheit = Multiply degrees Centigrade by 9, divide product by 5, and add 32.

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