

COMMON CONVERSION FACTORS

	To convert from	to	multiply by	
Length	inches (in)	millimetres	25.40	TROY 24 grains = 1 pennyweight (dwt.) 20 dwt. = 1 ounce Troy 12 ounces = 1 pound Troy 5,760 grains = 1 pound Troy 480 grains = 1 Troy oz. 1 kilogram = 2.68 pounds 1 kilogram = 32.15 Troy ozs. 1 kilogram = 2.2045 lbs. Avoir 1 kilogram = 35.2740 oz. Avoir 1 kilogram = 15,432 grains Troy oz = 1.0972 Avoir oz.
	feet (ft)	metres	0.305	
	yards (yd)	metres	0.914	
	chains (chain)	metres	20.117	
	miles (miles)	kilometres	1.61	
	millimetres (mm)	inches	0.04	
	metres (m)	feet	3.28	
	metres (m)	yards	1.09	
	kilometres (km)	chains	49.71	
	kilometres (km)	miles	0.621	
Area	square inches (in ²)	square millimetres	645.16	AVOIRDUPOIS 16 drams (or drachms) = 1 oz. Avoir 16 ounces = 1 pound Avoir 16 ounces = 7,000 grains 28 pounds = 1 quarter English 4 quarters = 1 hundredweight (cwt.) 20 hundredweight = 1 ton Avoir 1 pound Avoir = 14.5833 Troy oz. 1 ounce Avoir = 0.914 Troy oz 1 pound Avoir = 7,000 grains 1 ounce Avoir = 437.5 grains 1 pound Avoir = 0.4359 kilo
	square feet (ft ²)	square metres	0.09	
	square yards (yd ²)	square metres	0.84	
	square miles (mile ²)	square kilometres	2.59	
	acres (acre)	hectares	0.40	
	square millimetres (mm ²)	square inches	0.00	
	square metres (in ²)	square feet	10.76	
	square metres (m ²)	square yards	1.20	
	square kilometres (km ²)	square miles	0.39	
hectares (ha)	acres	2.47		
Volume	cubic inches (in ³)	cubic millimetres	16.387064 x 10 ³	CARAT 1 carat = 31/16 grains Troy 1 carat = 0.007 ounce Avoir 1 carat = 1/5 gram The carat is further divided into points for simple measurement: 1 carat= 100 points 1/2 carat = 50/100 points 1/4 carat = 25/100 points 1/8 carat = 12.5/100 points
	cubic inches (in ³)	millilitres	16.39	
	cubic feet (ft ³)	cubic metres	0.03	
	cubic feet (ft ³)	litres	28.32	
	cubic yards (yd ³)	cubic metres	0.76	
	UK gallons (gal)	litres	4.55	
	super feet (super ft)	cubic metres	2.359737 x 10 ⁻³	
	acre feet (acre ft)	cubic metres	1233.48	
	cubic millimetres (mm ³)	cubic inches	0.0610237 x 10 ⁻³	
	cubic metres (m ³)	cubic feet	35.31	
	cubic metres (m ³)	cubic yards	1.31	
	cubic metres (m ³)	acre feet	0.8107132 x 10 ⁻³	
	cubic metres (m ³)	super feet	423.78	
	millilitres (ml)	cubic inches	0.06	
	litres (litre)	cubic feet	0.04	
	litres (litre)	UK gallons	0.22	
	Mass	ounces (avoir) (oz)	grams	
pounds (lb)		kilograms	0.45	
tons (ton)		tonnes	1.02	
grams (g)		ounces (avoir)	0.04	
kilograms (kg)		pounds	2.20	
tonnes (t)		tons	0.98	

