

# MARCO POLO's FUN ENGLISH!®

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## Measures and Weights

**Length** (How long/height is it? How tall are you? What's its length/height?)

Unit	Inches, in.	Feet, ft.	Yards, yd.	Centimeters	Meters	Kilometers
1 inch(es) in.	=			2.54 cm.	.0254 m.	
1 foot (feet) ft.	= 12 in.			30.5 cm.	0.305 m.	
1 yard yd.	= 36 in.	3 ft.		91 cm.	0.910 m.	
1 mile		5,280 ft.			1,609 m.	1.609 km.
1 cm.	= 0.39 in.					
1 meter	= 39.4 in.	3.28 ft.	1.09 yd.	100 cm.		
1 km.		3,282 ft.	1,094 yd.		1,000 m.	

**Weights** How much do you weigh? How much do the potatoes weigh?

Avoirdupois weights used to weigh all things: people, butter, cement, elephants, ships, etc.:

Unit	Ounce, oz.	Pound, lb./lbs.	ton	Gram	Kilogram	m. tonne
1 ounce(s), oz.	=			28.3 gr.		
1 pound(s) lb(s).	= 16 oz.			454 gr.	0.454 kg.	
1 ton		2,000 lbs.			908 kg	0.908
1 gr.	= 0.035 oz.					
1 kg.		2.2 lbs.		1,000 gr.		
1 m. tonne		2,200 lbs.	1.1 tons			

Troy, t. weights used to weigh the precious metals: gold, silver, platinum, etc.:

Unit	grain, gr.	dwt.	t.oz.	t.lb(s).	Gram	Kilogram
1 grain, gr.	=	0.042 dwt.	0.002083 t.oz.		0.0648 gr.	
1 pennyweight, dwt.	= 24 gr.		0.05 t.oz.		1.555 gr.	
1 t. ounce, t.oz.	= 480 gr.	20 dwt.			31.103 gr.	
1 t. pounds, t.lb(s).	= 5,760 gr.	240 dwt.	12 t.oz.		373 gr.	0.373 kg.
1 gram, gr.	=	0.643 dwt.				
1 kg.	=		32.151 t.oz.	2.679 t.lbs.		

Carat weights used to weigh gems: diamonds, rubies, emeralds, sapphires, garnets, etc.:

Unit	Point(s), pts.	Carat(s), ct.	Milligrams	Grams
1 point, pt(s).	=	.01 ct.	2 mg.	0.002 gr.
1 carat, ct.	= 100 pts.		200 mg.	0.2 gr.

Karat, the purity of gold: European % pure

1 Karat, kt./Kt.	=	.042	4.166 %
9 Karat, Kt.	=	.375	37.5 %
12 Karat, Kt.	=	.500	50 %
14 Karat, Kt.	=	.583	58.333 %
18 Karat, Kt.	=	.075	75 %
22 Karat, Kt.	=	.9167	91.666 %
24 Karat, Kt.	=	1.000	100 %

**Liquid Volume:** (How much beer is there? How much milk should I buy?)

Unit:	ounce, oz.	pint, pt.	quart, qt.	gallon, gal.	barrel	liter
1 ounce oz. or fl.oz.	=					0.0295 l.
1 glass	= 8 oz.					0.237 l
1 pint, pt.	= 16 oz.					0.473 l.
1 quart, qt.	= 32 oz.	2 pts.				0.946 l.
1 gallon, gal.	= 64 oz.	8 pts.	4 qt.			3.785 l.
1 barrel, bar., bbl, bbl., bl. (keg, drum) =				beer 31 gal., oil 42 gal.;		'drum' often = 55 gal.
1 liter	= 33.792 oz.	2.112 pt.	1.056 qt	0.264 gal.		