

slightly larger than the English yard. Its decimal subdivisions and multiples are :

	English inches.	English feet.	English yards
Millimètre0393707904		
Centimètre393707904		
Decimètre	3.93707904		
Mètre	3.2808992		1.093633
Decamètre	32.808992		10.93633
Hectomètre	328.08992		109.3633
Kilomètre	3280.8992		1093.633
Myriamètre	32808.992		10936.33

Remeasurements of the quadrant or arc will make very little difference in these figures. The latest now adopted by astronomers gives, by the writer's figuring, the mètre = 1.093614 yards. Tables of square and cubic measures are scarcely needed, except as to land, where the unit adopted is the are, which is 10 mètres, or 32.809 feet square, or 1076.43 square feet. The multiple mostly used is the hectare (100 ares) which has superseded on the Continent most of the old measures of land. Our acre of 10 square chains of 66 feet, therefore, contains 40.467 ares, and the hectare is 2.471 acres.

The gramme is the weight of a cubic centimètre of distilled water at freezing point ; 32° Fahr. or 0° Centigrade. Its parts and multiples are :

	English grains, Troy.	English pounds, Avoirdupois.
Milligramme01543234	
Centigramme1543234	
Decigramme	1.543234	
Gramme	15.43234	.00220462
Decagramme0220462
Hectogramme220462
Kilogramme		2.20462
Myriagramme		22.0462
Quintal	22	0.462

It will be seen that another multiple is needed to be an equivalent for the convenient weight, the ton. This may be called the metric or the standard ton, and will equal 2204.62 lbs. avoirdupois.

The litre is the volume of a cubic decimètre, and contains a kilogramme of water at 39.2° Fahr. or 4° Cent. in a vacuum.

	Imperial pints	Imperial gallons
Millilitre0017607736	
Centilitre017607736	
Decilitre17607736	
Litre	1.7607736	0.2200967
Decalitre		2.200967
Hectolitre		22.00967
Kilolitre		220.0967