

THE METRIC SYSTEM OF WEIGHTS AND MEASURES AS ESTABLISHED BY ACT OF CONGRESS.

MEASURES OF LENGTH.

METRIC DENOMINATIONS AND VALUES.		EQUIVALENTS IN DENOMINATIONS IN USE.
Myriametre	10000 metres	6,213.7 miles.
Kilometre	1000 metres	0.62137 mile, or 3280 feet and 10 inches.
Hectometre	100 metres	328 feet and 1 inch.
Decametre	10 metres	393.7 inches.
METRE	1 metre	39.37 inches.
Decimetre . . . . .	.1 metre	3.937 inches.
Centimetre . . . . .	.01 metre	0.3937 inch.
Millimetre . . . . .	.001 metre	0.0394 inch.

MEASURES OF SURFACE.

METRIC DENOMINATIONS AND VALUES.		EQUIVALENTS IN DENOMINATIONS IN USE.
Hectare	10000 square metres	2.471 acres.
ARE	100 square metres	119.6 square yards.
Centare	1 square metre	1550 square inches.

MEASURES OF CAPACITY.

METRIC DENOMINATIONS AND VALUES.			EQUIVALENTS IN DENOM. IN USE.	
Names.	No. of Litres.	Cubic Measure.	Dry Measure.	Liquid or Wine Measure.
Kilolitre or Stere	1000	1 cubic metre	1,308 cubic yards	264.17 gals.
Hectolitre	100	.1 cubic metre	2 bu. and 3.35 pecks	26.417 gals.
Decalitre	10	10 cubic decimetres	9.08 quarts	2.6417 gals.
LITRE	1	1 cubic decimetre	0.908 quart	1.0567 qts.
Decilitre . . . . .	.1	.1 cubic decimetre	6.1022 cub. inches	0.845 gill.
Centilitre . . . . .	.01	10 cubic centimetres	0.6102 cub. inch	0.338 fluid oz.
Millilitre . . . . .	.001	1 cubic centimetre	0.061 cub. inch	0.27 fluid dr.

WEIGHTS.

METRIC DENOMINATIONS AND VALUES.			EQUIVALENTS IN DENOM. IN USE.
Names.	No. of Grams.	Weight of what Quantity of Water at maximum Density.	Avoirdupois Weight.
Millier or Tonneau	1000000	1 cubic metre	2204.6 pounds.
Quintal	100000	1 hectolitre	220.46 pounds.
Myriagram	10000	10 litres	22.046 pounds.
Kilogram or Kilo	1000	1 litre	2.2046 pounds.
Hectogram	100	1 decilitre	3.5274 ounces.
Decagram	10	10 cubic centimetres	0.3527 ounce.
GRAM	1	1 cubic centimetre	15.432 grains.
Decigram . . . . .	.1	.1 cubic centimetre	1.5432 grain.
Centigram . . . . .	.01	10 cubic millimetres	0.1543 grain.
Milligram . . . . .	.001	1 cubic millimetre	0.0154 grain.

TABLE OF MONEYS.

UNITED STATES.—The gold coins of the United States are the Double Eagle (20 dollars), Eagle (10 dollars), Half Eagle (5 dollars), and smaller fractions of the Eagle. The silver coins are the Dollar, Half Dollar, and coins less than the half dollar.

GREAT BRITAIN.—Of the sterling money of Great Britain, 4 farthings = 1 penny; 12 pence = 1 shilling = \$0.24 $\frac{3}{4}$; 20 shillings = 1 pound, or sovereign, = \$4.86.65.

OFFICIAL VALUATION OF FOREIGN COINS, JANUARY 1, 1888.

COUNTRY.	Monetary Unit.	Value in U. S. Money.	Coin.
Argentine Republic	Peso	\$0.96,5	Gold: argentine (\$4.82,4) and $\frac{1}{2}$ argentine. Silver: peso and divisions.
Austria	Florin . . . . .	.34,5	Gold: 4 florins (\$1.92,9), 8 florins (\$3.85,8), ducat (\$2.28,7), and 4 ducats (\$9.15,8). Silver: 1 and 2 florins.
Belgium	Franc . . . . .	.19,3	Gold: 10 and 20 francs. Silver: 5 francs.
Bolivia	Boliviano . . . . .	.69,9	Silver: boliviano and divisions.
Brazil	Milreis of 1000 reis . . . . .	.54,6	Gold: 5, 10, and 20 milreis. Silver: $\frac{1}{2}$, 1, and 2 milreis.
Canada	Dollar	1.00	
Chili	Peso . . . . .	.91,2	Gold: escudo (\$1.82,4), doubloon (\$4.56,1), and condor (\$9.12,3). Silver: peso and divisions.
Cuba	Peso . . . . .	.92,6	Gold: doubloon (\$5.01,7). Silver: peso.
Denmark	Crown . . . . .	.26,8	Gold: 10 and 20 crowns.
Ecuador	Sucre . . . . .	.69,9	Gold: condor (\$9.64,7), and double condor. Silver: sucre and divisions.
Egypt	Pound (100 piastres)	4.94,3	Gold: pound (100 piastres), 50 piastres, 20 piastres, 10 piastres, and 5 piastres. Silver: 1, 2, 5, 10, and 20 piastres.
France	Franc . . . . .	.19,3	Gold: 5, 10, 20, 50, and 100 francs. Silver: 5 francs.
German Empire	Mark . . . . .	.23,8	Gold: 5, 10, and 20 marks. [sovereign.]
Great Britain	Pound sterling	4.86,6 $\frac{1}{2}$	Gold: sovereign (pound sterling) and $\frac{1}{2}$
Greece	Drachma . . . . .	.19,3	Gold: 5, 10, 20, 50, and 100 drachmas. Silver: 5 drachmas.
Guatemala	Peso . . . . .	.69,9	Silver: peso and divisions.
Hayti	Gourde . . . . .	.96,5	Silver: gourde.
Honduras	Peso . . . . .	.69,9	Silver: peso and divisions.
India	Rupee of 16 annas . . . . .	.33,2	Gold: mohur (\$7.10,5). Silver: rupee and divisions. [5 liras.]
Italy	Lira . . . . .	.19,3	Gold: 5, 10, 20, 50, and 100 liras. Silver: 5 liras.
Japan	Yen . . . . .	.99,7	Gold: 1, 2, 5, 10, and 20 yen.
Liberia	Dollar . . . . .	.75,3	Silver: yen.
Mexico	Dollar	1.00	
Netherlands	Florin . . . . .	.40,2	Gold: dollar (\$0.98,3), 2 $\frac{1}{2}$, 5, 10, and 20 dollars. Silver: dollar (or peso) and divisions. [florins.]
Nicaragua	Peso . . . . .	.69,9	Gold: 10 florins. Silver: $\frac{1}{2}$, 1, and 2 $\frac{1}{2}$
Norway	Crown . . . . .	.26,8	Silver: peso and divisions.
Peru	Sol . . . . .	.69,9	Gold: 10 and 20 crowns.
Portugal	Milreis of 1000 reis	1.08	Silver: sol and divisions.
Russia	Rouble of 100 copecks . . . . .	.55,9	Gold: 1, 2, 5, and 10 milreis. Gold: imperial (\$7.71,8), and $\frac{1}{2}$ imperial (\$3.86). Silver: $\frac{1}{4}$, $\frac{1}{2}$, and 1 rouble.
Spain	Peseta of 100 centimes . . . . .	.19,3	Gold: 25 pesetas. Silver: 5 pesetas.
Sweden	Crown . . . . .	.26,8	Gold: 10 and 20 crowns. [ver: 5 francs.]
Switzerland	Franc . . . . .	.19,3	Gold: 5, 10, 20, 50, and 100 francs. Silver: 5 francs.
Tripoli	Mahhub of 20 piastres . . . . .	.63	
Turkey	Piastre . . . . .	.04,4	Gold: 25, 50, 100, 250, and 500 piastres.
United States of Colombia	Peso . . . . .	.69,9	Gold: condor (\$9.64,7) and double condor. Silver: peso. [ver: 5 bolivars.]
Venezuela	Bolivar . . . . .	.14	Gold: 5, 10, 20, 50, and 100 bolivars. Silver: 5 bolivars.

THE NAMES OF SOME OF THE PRINCIPAL
FIXED STARS AND CONSTELLATIONS.

N. B.—Most of the named stars bear appellations taken from the Arabic, with more or less change. The pronunciations here given are popularized and Anglicized, there being no attempt to approximate to the Arabic sounds.

A-çhër'när	Bë-nët'nasçh	Kö'çhäb	Räs-Al-äs'ad
A-cü'bëns	Bët'el-geüse (or -gez), or	Kör-nëf'q-rös	Räs-Al-ge'thi
Äd-hä-fë'ra	Bët'el-geux (-gü)	Lë'pus	Räs-Al-hägue' (-häg')
Äd-hä'ra	Bë-ö'tës	Lë'suth	Räs-tä'ben
Äl-bë'na	Ça-mël-q-pär'da-lis	Lï'bra	Rëg-ül-lüs
Äl-bir'ç-ö	Ça-nö'pus	Lÿ'ra	Ri'çel
Äl-çhi'ba	Ça-pël'la	Mä'ia (-ya)	Rü-ül'i-cüs
Äl'çör	Çäph	Mär'küb	Sa-däl'sünd
Äl-cy'ç-në	Çäs-si-ç-pë'ia (-ya)	Mär'këb	Säd-el-Më'lik
Äl-dëb'a-rän	Çäs'tör	Mär'sic	Sädr
Äl-dër'a-mîn	Çëb-al-rä'i	Mëb-sü'ta	Sä'iph
Äl'çë-nëb	Çë-lë'no	Më-dü'sa	Shë'ät
Äl-Gië'ba (-jë')	Çë'pheüs	Më'grëz, or Më'gris	Scör'pi-ö
Äl'göl	Çë'tus	Më-lü'ç'ta	Së-ç'i'nus
Äl'gö-räb	Çö'ma Bër-ç-ni'cës	Mënk-a-li'nän	Sër'pens
Äl-gö'rës	Çör Çär'ç-li	Mën'kär	Sër-pen-tä'rj-üs
Äl-hë'na	Çör Hÿ'dræ	Më'räçh	Shë'dir
Äl'i-öth	Çür'sa	Më'räk	Shë'li-äk
Äl-käid'	Çÿ-no-sü'ra	Mër'ç-pë	Shër'a-tän
Äl-käph'rah	Dä'bih	Më-sär'thim	Sir'i-us
Äl-ka-tü'röps	Dë'nëb	Mi-a-pläç'i-düs	Skät
Äl'kës	Dë-nëb'ç-lä	Mîn-tä'ta	Sp'ça Vir'çi-nis
Äl'ma-äck	Diph'da	Mîn-ti'ka	Stër'ç-pe
Äl'mäçh	Drä'cö	Mi'ra	Sü'lü-phät
Äl'ni-läm	Düb'he	Mi'räc, or Mi'räçh	Sv'a-lö'çin
Äl'ni-täh	E-lë'ç'tra	Mir'zäm	Täl'i-tha
Äl'phärd	El-Më'lik	Mi'zär	Tär'a-zöd
Äl-phë'ç'a	El Näth'	Mö-nöç'ç-rös	Täü'rus
Äl'phë-rätz	El Räs'çha	Mü'fride, or Mü'frid	Ta-yë'ta
Äl'phirk	E'nif, or E'nir	Mü'li-phën	Të'jät
Äl-rü'ç'a-bäh	E-rid'a-nüs	Müs'ça	Thë-ëm'im
Äl-shäin'	Er-Rai'	Näçh	Thü'bän
Äl-täir'	Er-Rä'kis	Nä'ös	Ü'nük
Äl-wäid'	Et'a-nin	Nëk'ar	Ü'nük-äl-Hai'
Än'çha	Fö'mäl-häut	Nëk'kär	Vë'ça
An-dröm'ç-da	Gëm'i-ni	Ni'häl	Vin-çë-mi'a-trix
Ant-a'rës	ç'i-än'sär	ç-ri'çn	Vir'gö
Ärc-tü'rus	çie'di	Pëç'a-süs	Wä'sät
Är'gö	çi-ë'nah	Për'seüs	Wë'sen
Är'i-dëd	Çö-mël'za, or	Phäd	Yed
Ä'rj-ëç	Çö-meis'a	Phä'ët	Zär'i-jän
Är'nëb	Çräf'ç-äs	Phärd	Zäv-i-jä'va
A-sël'lus	Çrü'mj-üm	Phëç'da	Zäü'räc
Ä'sich	Hä'mäl	Pö-lä'rjç	Zöç'ma
Äü-ri'ç'a	Hö'män	Pöl'lux	Zü-ben-ël-Ga-mä'bi
Ä-zël-fa-fä'ç'i	I'zär	Prö'cy-ön	Zü-ben-ël-Gü'bi
Bä'ten Kai'tös	Käi-tä'in	Prö'pus	Zü-ben-çs-phäm'a-li
Bël-lä'trix	Ki'äd	Pül-çhër'ri-ma	Zü-ben-häk'ra-bi

IV

Allie Kennessy
Middletown
Conn

1850

No Holy
I hope per pass

1874
1875
1879

Victoria Gulph



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