

# Measures and Money

From *The North American Arithmetic* By Benjamin Greenleaf; Boston, 1853 (Google Books)

## TABLES OF MONEY, WEIGHTS, AND MEASURES.

### UNITED STATES MONEY.

|            |      |           |        |     |
|------------|------|-----------|--------|-----|
| 10 Mills   | make | 1 Cent,   | marked | c.  |
| 10 Cents   | "    | 1 Dime,   | "      | d.  |
| 10 Dimes   | "    | 1 Dollar, | "      | \$. |
| 10 Dollars | "    | 1 Eagle,  | "      | E.  |

  

|        |   |        |   |        |   |          |   |        |
|--------|---|--------|---|--------|---|----------|---|--------|
| Mills. | = | Cents. | = | Dimes. | = | Dollars. | = | Eagle. |
| 10     | = | 1      | = | 1      | = | 1        | = | 1      |
| 100    | = | 10     | = | 10     | = | 1        | = | 1      |
| 1000   | = | 100    | = | 100    | = | 10       | = | 1      |
| 10000  | = | 1000   | = | 1000   | = | 100      | = | 1      |

### ENGLISH MONEY.

|                       |      |             |        |    |
|-----------------------|------|-------------|--------|----|
| 4 Farthings           | make | 1 Penny,    | marked | d. |
| 12 Pence              | "    | 1 Shilling, | "      | s. |
| 20 Shillings          | "    | 1 Pound,    | "      | £. |
| 21 Shillings sterling | "    | 1 Guinea,   | "      | G. |
| 28 Shillings N. E.    | "    | 1 Guinea,   | "      | G. |

NOTE. — One pound sterling is equal to \$ 4.44 $\frac{1}{2}$ , exchange value.

|     |   |     |   |    |   |   |
|-----|---|-----|---|----|---|---|
| 4   | = | 1   | = | 1  | = | 1 |
| 48  | = | 12  | = | 1  | = | 1 |
| 960 | = | 240 | = | 20 | = | 1 |

### FRENCH MONEY.

100 Centimes make 1 Franc = .186 dollar.

### TROY WEIGHT.

|                 |      |                |        |      |
|-----------------|------|----------------|--------|------|
| 24 Grains       | make | 1 Pennyweight, | marked | dwt. |
| 20 Pennyweights | "    | 1 Ounce,       | "      | oz.  |
| 12 Ounces       | "    | 1 Pound,       | "      | lb.  |

  

|      |   |      |   |     |   |     |
|------|---|------|---|-----|---|-----|
| gr.  | = | dwt. | = | oz. | = | lb. |
| 24   | = | 1    | = | 1   | = | 1   |
| 480  | = | 20   | = | 1   | = | 1   |
| 5760 | = | 240  | = | 12  | = | 1   |

By this weight are weighed gold, silver, and jewels.

NOTE. — "The original of all weights used in England was a grain or corn of wheat, gathered out of the middle of the ear; and, being well dried, 32 of them were to make one pennyweight, 20 pennyweights one ounce, and 12 ounces one pound. But in later times, it was thought sufficient to divide the same pennyweight into 24 equal parts, still called grains, being the least weight now in common use; and from hence the rest are computed."

### LONG MEASURE.

|   |      |                        |        |           |
|---|------|------------------------|--------|-----------|
| 3 Barleycorns, or 12 Lines                      | make | 1 Inch,                | marked | in.       |
| 2 Inches  | "    | 1 Foot,                | "      | ft.       |
| 3 Feet  | "    | 1 Yard,                | "      | yd.       |
| 6 Feet  | "    | 1 Fathom,              | "      | fh.       |
| 5 $\frac{1}{2}$ Yards, or 16 $\frac{1}{2}$ Feet | "    | 1 Rod, or Pole,        | "      | rd.       |
| 40 Rods   | "    | 1 Furlong,             | "      | fur.      |
| 8 Furlongs                                      | "    | 1 Mile,                | "      | m.        |
| 3 Miles   | "    | 1 League               | "      | lea.      |
| 69 $\frac{1}{2}$ Miles nearly                   | "    | 1 Degree,              | "      | Deg. or ° |
| 360 Degrees                                     | "    | 1 Circle of the Earth. |        |           |

  

|       |   |                  |   |                 |   |     |
|-------|---|------------------|---|-----------------|---|-----|
| in.   | = | ft.              | = | yd.             | = | rd. |
| 12    | = | 1                | = | 1               | = | 1   |
| 36    | = | 3                | = | 1               | = | 1   |
| 198   | = | 16 $\frac{1}{2}$ | = | 5 $\frac{1}{2}$ | = | 1   |
| 7920  | = | 660              | = | 220             | = | 40  |
| 63360 | = | 5280             | = | 1760            | = | 320 |
|       |   |                  |   |                 | = | 8   |
|       |   |                  |   |                 | = | 1   |

APOTHECARIES' WEIGHT.

|            |      |            |        |        |     |
|------------|------|------------|--------|--------|-----|
| 20 Grains  | make | 1 Scruple, | marked | sc. or | ℥   |
| 3 Scruples | "    | 1 Dram,    | "      | dr. or | ʒ   |
| 8 Drams    | "    | 1 Ounce,   | "      | oz. or | ℥   |
| 12 Ounces  | "    | 1 Pound,   | "      | lb. or | ℔   |
| gr.        |      | sc.        |        |        |     |
| 20 =       |      | 1 =        | dr.    |        |     |
| 60 =       |      | 3 =        | 1 =    | oz.    |     |
| 480 =      |      | 24 =       | 8 =    | 1 =    | lb. |
| 5760 =     |      | 288 =      | 96 =   | 12 =   | 1   |

Apothecaries mix their medicines by this weight; but buy and sell by Avoirdupois. The pound and ounce of this weight are the same as in Troy Weight

AVOIRDUPOIS WEIGHT.

|                   |      |                   |        |      |      |      |
|-------------------|------|-------------------|--------|------|------|------|
| 16 Drams          | make | 1 Ounce,          | marked | oz.  |      |      |
| 16 Ounces         | "    | 1 Pound,          | "      | lb.  |      |      |
| 28 Pounds         | "    | 1 Quarter,        | "      | qr.  |      |      |
| 4 Quarters        | "    | 1 Hundred Weight, | "      | cwt. |      |      |
| 20 Hundred Weight | "    | 1 Ton,            | "      | ton. |      |      |
| dr.               |      | oz.               |        |      |      |      |
| 16 =              |      | 1 =               | lb.    |      |      |      |
| 256 =             |      | 16 =              | 1 =    | qr.  |      |      |
| 7168 =            |      | 448 =             | 28 =   | 1 =  | cwt. |      |
| 28672 =           |      | 1792 =            | 112 =  | 4 =  | 1 =  | ton. |
| 573440 =          |      | 35840 =           | 2240 = | 80 = | 20 = | 1    |

By this weight are weighed almost every kind of goods, and all metals except gold and silver. By a late law of Massachusetts, the cwt. contains 100 lbs. instead of 112 lbs.

A ton is reckoned at the custom-houses of the United States at 2240 lbs.

LONG MEASURE.

DRY MEASURE.

|            |      |             |        |      |     |
|------------|------|-------------|--------|------|-----|
| 2 Pints    | make | 1 Quart,    | marked | qt.  |     |
| 4 Quarts   | "    | 1 Gallon,   | "      | gal. |     |
| 2 Gallons  | "    | 1 Peck,     | "      | pk.  |     |
| 4 Pecks    | "    | 1 Bushel,   | "      | bu.  |     |
| 36 Bushels | "    | 1 Chaldron, | "      | ch.  |     |
| pts.       |      | gal.        |        |      |     |
| 8 =        |      | 1 =         | pk.    |      |     |
| 16 =       |      | 2 =         | 1 =    | bu.  |     |
| 64 =       |      | 8 =         | 4 =    | 1 =  | ch. |
| 2304 =     |      | 288 =       | 144 =  | 36 = | 1   |

NOTE.—This measure is applied to all goods that are not liquid and are sold by measure, as corn, fruit, salt, coals, &c. A Winchester Bushel is 18½ inches in diameter, and 8 inches deep. The standard Gallon Dry Measure contains 268½ cubic inches.

ALE AND BEER MEASURE.

|             |      |             |        |       |
|-------------|------|-------------|--------|-------|
| 2 Pints     | make | 1 Quart,    | marked | qt.   |
| 4 Quarts    | "    | 1 Gallon,   | "      | gal.  |
| 32 Gallons  | "    | 1 Barrel,   | "      | bar.  |
| 54 Gallons  | "    | 1 Hogshead, | "      | hhd.  |
| 2 Hogsheads | "    | 1 Butt,     | "      | butt. |
| 2 Butts     | "    | 1 Tun,      | "      | tun.  |

CLOTH MEASURE.

|                    |      |                      |        |       |
|--------------------|------|----------------------|--------|-------|
| 2½ Inches          | make | 1 Nail               | marked | na.   |
| 4 Nails            | "    | 1 Quarter of a yard, | "      | qr.   |
| 4 Quarters         | "    | 1 Yard,              | "      | yd.   |
| 3 Quarters         | "    | 1 Ell Flemish,       | "      | E. F. |
| 5 Quarters         | "    | 1 Ell English,       | "      | E. E. |
| 4 Quarters 1½ inch | "    | 1 Ell Scotch,        | "      | E. S. |

SQUARE MEASURE.

|                         |      |                       |        |       |
|-------------------------|------|-----------------------|--------|-------|
| 144 Square inches       | make | 1 Square foot,        | marked | ft.   |
| 9 Square feet           | "    | 1 Square yard,        | "      | yd.   |
| 30¼ Square yards        | "    | 1 Square rod or pole, | "      | p.    |
| 272¼ Square feet        | "    | 1 Square rod or pole, | "      | p.    |
| 40 Square rods or poles | "    | 1 Rood,               | "      | R.    |
| 4 Roods                 | "    | 1 Acre,               | "      | A.    |
| 640 Acres               | "    | 1 Square mile,        | "      | S. M. |

  

|              |            |           |          |        |       |
|--------------|------------|-----------|----------|--------|-------|
| 144 =        | 1 =        | 1 =       | 1 =      | 1 =    | 1 =   |
| 1596 =       | 9 =        | 1 =       | 1 =      | 1 =    | 1 =   |
| 39204 =      | 272¼ =     | 30¼ =     | 1 =      | 1 =    | 1 =   |
| 1568160 =    | 10890 =    | 1210 =    | 40 =     | 1 =    | 1 =   |
| 6272640 =    | 43560 =    | 4840 =    | 160 =    | 4 =    | 1 =   |
| 4014489600 = | 27878400 = | 3097600 = | 102400 = | 2560 = | 640 = |

MISCELLANEOUS TABLE.

|   |        |             |
|---|--------|-------------|
| A gallon of train oil                                   | weighs | 7½ pounds.  |
| A stone of butcher's meat                               | "      | 8 "         |
| A gallon of molasses                                    | "      | 11 "        |
| A stone of iron   | "      | 14 "        |
| A tod   | "      | 28 "        |
| A firkin of butter                                      | "      | 56 "        |
| A firkin of soap  | "      | 94 "        |
| A quintal of fish                                       | "      | 100 "       |
| A weigh   | "      | 182 "       |
| A sack  | "      | 364 "       |
| A puncheon of foreign prunes                            | "      | 1120 "      |
| A last  | "      | 4368 "      |
| A fother of lead  | "      | 19½ cwt.    |
| A barrel of anchovies                                   | "      | 30 pounds.  |
| " raisins   | "      | 112 "       |
| " flour   | "      | 196 "       |
| " pork or beef  | "      | 200 "       |
| " soap  | "      | 256 "       |
| " shad or salmon in Connect- }<br>icut or New York }    | "      | 200 "       |
| " fish in Massachusetts                                 | is     | 30 gallons. |
| " cider and beer  | "      | 32 "        |
| " herrings in England                                   | "      | 32 "        |
| " salmon or eels do.                                    | "      | 42 "        |
| 8 bushels of salt, measured on }<br>board the vessel, } | "      | 1 hogshead. |
| 7½ do. measured on shore,                               | "      | 1 "         |