RULE FOR COMPUTING THE OVERPROOF ON SPIRITS IN BOTTLE. ReDUCE the gallons and gills into gills; multiply by the strength per cent.; set off the decimal point, and
divide by 100 . Example.

$$
\begin{aligned}
& \text { *10.200 }=10 \text { gills. } \\
& \begin{array}{l}
120 \\
\frac{130}{\text { O.P. }}={ }^{\text {gills. }} \begin{array}{l}
\text { galls. } \\
\frac{2}{2}
\end{array} \text { for duty. }
\end{array} \\
& \text { No. 2. } 36 \times 4 \frac{2}{2}=162 \quad \begin{array}{l}
\text { O.P. } \\
3.4 \\
\text { B. }
\end{array} \\
& \frac{3.4}{\text { *5. } 508}={ }_{162}^{6 \text { gills. }} \\
& \overline{168}=\frac{5}{5 \frac{8}{32}} \text { for duty. }
\end{aligned}
$$

16 drachms make 16 ounces
14 pounds "

AVOIRDUPOIS WEIGHT.


TROY WEIGHT.
24 grains $=1$ dwt. $=24$ grains
20 dwts. $=1$ ounce $=480$,

These are the denominations of Troy weight where used for weighing gold, silver, and precious stones (except diamonds). But Troy weight is also used by apothecaries in compounding medicines, and by them
the ounce is divided into 8 drams, and the dram into 3 seruples, so that the seruple is equal to 20 grains. the ounce is divided into 8 drams, and the dram into 3 scruples, so that the scruple is equal to 20 grains. For scientific purposes the grain only is used; and sets of
from 10,000 grains downward to 1-100th part of a grain.

The carat, used for weighing diamonds, is 3 grains and 1-6th. The term, however, when used to express the fineness of gold, has a relative meaning only. Every mass of alloyed gold is supposed to b pure gold, and 2 parts of alloy.

ALE, BEER, AND PORTER MEASUBE.

| 4 gills | make |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 pints | make | $\ldots$ | ... | 1 pint | ${ }_{2}^{2}$ firkins, or 18 gallon |  | make | 1 kild. |
| 4 quarts | " |  |  | 1 gaalon | 3 3 kilderkins, or 54 gal |  | " | 1 bar. |
| 9 gallons | " | ... |  | 1 firkin |  |  | " | hhd. |
|  |  |  |  |  | hogsheads, or 10 | lons | " | 1 butt |
|  |  |  | WI | AND | IT MEASURE. |  |  |  |
| 4 gills | make |  |  | 1 pint | 84 gallons |  |  |  |
| 2 pints | " |  | ... | 1 quart | 2 hhds., or 126 galls. |  |  | 1 puncheon |
| 4 quarts | " |  | $\ldots$ | 1 gallon | 4 hhds., or 252 galls. |  | " | 1 pipe or butt |
| 63 gallons | " | ... | $\ldots$ | 1 hhd. | 4 hhds., or 252 galls. |  | " |  |



Laxd is measured by Gunter's Chain, which is as follows:
Length. -7.92 inches make 1 link; 12 inches, or 1.515 links make 1 foot; 36 inches, or 4.545 links, make 1 yard; 198 inches, or 25 links, make 1 pole or perch; 702 inches, or 100 links, or 66 feet, or 22 yards, or 4 poles, make 1 chain ; 7920 inches, or 1000 links, or 10 chains, make 1 furlong; 63,360 inches, or 8000 links, or 80 chains, make 1 mule.

Square-62.726 square inches make 1 square link; 2.295 square links make 1 square foot; 22.661 square links make 1 square yard; 625 square links make 1 square pole; 100,000 square links make 1 square chain; 25,000 square links, or 2.5 square chains, make 1 square rood; 100,000 square links, or 10 square chains, make 1 square acre.

| 4 gills | = | 1 pint | = |  | in |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 2 pints | $=$ | 1 quart | = | 693 |  |
| 4 quarts | $=$ | 1 gallon | = | $277 \frac{1}{4}$ | " |
| 2 gallons | $=$ | 1 peck | = |  | " |
| 8 gallons |  | 1 bushel | = | 2218 \& |  |
| 8 bushels | $=$ | 1 quarter | = | $\begin{aligned} & 10 \frac{1}{2} \\ & 51 \frac{1}{3} \end{aligned}$ | " |

