

To turn any given Currency into any Currency required.

Rule 1. Let the value of the Spanish Dollar be expressed in Shillings, or Pence, in each of the Currencies, writing them in form of a Fraction,

and making the $\left. \begin{matrix} \text{required} \\ \text{given} \end{matrix} \right\}$ Currency the

Numerator $\left. \begin{matrix} \text{Denominator} \end{matrix} \right\}$ of the Fraction.

Reduce this Fraction to its least terms, and it will serve as a constant Multiplier, by which any sum of the given Currency being Multiplied, it will be converted into the Currency required.

N. B. When the Fraction is not an improper one the Multiplier will become a Divisor.

EXAMP. To form a rule for changing Sterling at 4/6. pr. Dollar into New-York at 8s. pr. Dollar.

Here Sterling is given, and York required: The Dollar in $\left\{ \begin{matrix} \text{York is 8s. or 96 Pence Numerator,} \\ \text{Sterling 4/6. or 54 Pence Denominator.} \end{matrix} \right.$

Therefore $\frac{96}{54}$ is the Multiplier sought, which reduced to its least terms becomes $\frac{16}{9}$ or $1\frac{7}{9}$, therefore if Sterling be multiplied by 16 and divided by 9 the result will be York, thus. $\frac{16}{9}$ is the same as 2 into $\frac{8}{9}$, but $\frac{8}{9}$ is the same as 1 less $\frac{1}{9}$, therefore 2 into $\frac{8}{9}$ is equal to 2 into 1 less $\frac{1}{9}$, which is that Rule, expressed shorter thus, $\frac{16}{9} = 2 \times \frac{8}{9} = 2 \times 1\frac{1}{9}$.

To turn sterling into $\left\{ \begin{matrix} \text{Currency or Halifax, add 1-9} \\ \text{Army, add 1-27} \end{matrix} \right.$
 Currency into $\left\{ \begin{matrix} \text{Sterling, deduct 1-10} \\ \text{Army pay, deduct 1-15} \end{matrix} \right.$
 Army pay into $\left\{ \begin{matrix} \text{Sterling, deduct 1-28} \\ \text{Currency, add 1-14} \end{matrix} \right.$

A Half Joe is £1 16 0 sterl. 2 0 0 cur; 1 17 4 army
 A Guinea is 1 1 0 1 3 4 1 1 9
 A Dollar is 0 4 6 0 5 0 0 4 8 TA.

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