A General Rule

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 { given / required } Currency the { Denominator / Numerator } 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.

Example.

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

Here *Sterling* is *given*, and *York required*: The Dollar in { York is 8*ſ*. or 96 Pence Numerator, / Sterling 4*ſ*6. or 54 Pence Denominator.

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, $\frac{16}{9} = 2 \times \frac{8}{9} = 2 \times 1\frac{1}{9}$.

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