

Compound Proportion

or The Double Rule of Three.

Compound proportion is compounded of two or more ranks of proportionals; five, seven, nine, &c. terms being given, to find a sixth, or eighth, &c.

Rule.

Write by two or more statings in Simple Proportion, so that that term which is like the term sought, in the first place, and consider each pair of similar terms and the third one, as the terms of stating in Simple Proportion, and set them overally, in the first and second places agreeably to the directions under that rule.

Then the proportion thus stated, reduce the similar terms to like denominations and multiply all the terms in the second and third place together, and divide the product by the product of those in the first place; the quotient will be the answer, or term sought.

The above rule is proposed for directions similar to the which have been given for adapting the new rule for Simple Proportion, the one formerly used is however, as follows.

Rule for stating.

Put the two terms of supposition which are of one kind, in the first and second places, and the demand one under the first.