

Single Fellowship

A B & C traded in company A put in 140 dols B 250 dols C put in 120 dols of cloth at cost price they gained 230 dols of which B took 100 dols for his share of the gain how did C value his cloth per yd in common stock & what was A's part of the gain

$$\begin{array}{r} 140 \quad 250 \\ 250 \quad 100 \\ 390 \quad 130 \end{array} \quad \begin{array}{r} 340 :: 130 :: 140 \\ 340 :: 130 :: 250 \end{array}$$

$$\begin{array}{r} 130 :: 340 :: 100 \\ 130 :: 340 :: 300 \end{array}$$

$$\begin{array}{r} 240 \quad 8 \text{ to } 40 \\ 120 :: 300 :: ? \\ 120 \quad 300 \end{array}$$

$$\begin{array}{r} 250 \\ 250 \end{array}$$

Compound Fellowship

Rule

Multiply each man's stock & share by the time it is was continued then is the sum of the several products is to the whole gain as is each man's particular product to his particular share of the gain

Examples

Two merchants enter into partnership for 12 months A at first put into stock 500 dollars but the end of 8 months he put in 100 dols more B at first put in 1000 dollars more B at first put in 1000 dollars at a month he withdrew 200 dols At the expiration of the time they find they have gained 700 dols what is each man's share of the gain

$$\begin{array}{r} 500 \text{ mo } 8 \\ 100 \text{ mo } 4 \\ 1000 \text{ mo } 12 \\ 1100 \text{ mo } 8 \\ 1000 \text{ mo } 4 \\ 2100 \end{array} \quad \begin{array}{r} 2100 :: 700 :: 1100 \\ 2100 :: 700 :: 1100 \end{array}$$

$$\begin{array}{r} 1100 \\ 1100 \\ 1100 \\ 1100 \\ 1100 \\ 1100 \end{array}$$

The Double Rule of Three

The Double Rule of Three teaches to find as doe at once such questions as require two or more statings in simple proportion whether direct or inverse In this rule there are always five terms given to find a sixth the three first terms of which are a supposition the two last a demand

Examples

An usurer put out 1000 to receive interest for the same when it had continued 8 months he received principal interest 33 1/3 shd & demand at what rate per cent per ann he received

$$1000 :: 33 \frac{1}{3} :: 1000$$

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40 bushels of wheat are sufficient for a family of 12 persons 8 months how much wheat will be sufficient for 16 persons 12 months

$$40 :: 12 :: 80$$

Vulgar Fractions

Rule

Divide by any number that will divide two or more of the given numbers with a remainder set the quotients together with the undivided numbers in the numerator

Examples

What is the least number that will be divided by 4 5 6 7 8 9

$$\begin{array}{r} 4 \quad 5 \quad 6 \quad 7 \quad 8 \quad 9 \\ 2 \quad 3 \quad 4 \quad 5 \quad 6 \quad 7 \end{array}$$

What is the least number that can be divided by the given numbers separately with a remainder

$$\begin{array}{r} 12 \quad 15 \quad 20 \quad 25 \quad 30 \\ 3 \quad 5 \quad 4 \quad 5 \quad 6 \end{array}$$