quantities and motions

Ramsay

"These three combinations of the three primary ratios, when taken together with 1 as unity, produce ten different **quantities and motions** - 1, 2, 3, 5, 6, 9, 15, 18, 27, and 45; and by producing the octaves of these primes and products, dividing by 4 for the quantities, and multiplying by 2 for the motions[2] up to 64, we have 15 additional **quantities and motions** - 4, 8, 10, 12, 16, 20, 24, 30, 32, 36, 40, 48, 54, 60, and 64." [Scientific Basis and Build of Music, page 16]

The simplest condition of **quantities and motions** is in a string where half the length is double the vibrations. Next in the order of simplicity is a [Scientific Basis and Build of Music, page 79]

See Also

---

amplitude

Distance

first comparison and combination of quantities

first condition in the first ratio

first condition in the third ratio

first condition of the second ratio

Frequency

Law of Relativity of Force

laws of quantities and motions

Motion

Number

order of quantities

Period

quantities and motions

quantities

Ratio

relative quantities

three primary ratios

Time

unit of quantities

Unit