

NUMBER SYSTEM - RATIOS

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Ratio

Ratio represents the proportion in which a number contains another number. A ratio is represented by a/b or $a:b$. The duplication or division of every term of a proportion by the same non zero number does not influence the proportion. Subsequently, $3:5$ is the same as $6:10$ or $9:15$ or $12:20$ and so on.

Extent

The fairness of two proportions is called extent. As $2:3 = 6:9$, we compose, $2:3::6:9$ and we can say that $2,3,6,9$ are in extent. Here 2 and 9 are called extremes while 3 and 6 are called implies.

In an extent, result of extremes=product of means.

Fourth Relative

if $a:b::c:d$, then d is known as the fourth relative to a, b and c .

Third Relative

if $a:b::c:d$, then c is known as the third relative to a and b .

Mean Relative

Mean relative is the middle of a and b .

Solved Examples

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