Article published on July 20th 2012 | Education

Ratio: Ratio means the number of times one quantity contains another quantity of the same kind. The comparison is made by considering what part or multiply the first quantity of the second. In a simple words the ratio gives a relation between two quantities. The ratio of two quantities a and b in the same units, is the fraction a/b and we write it as a:b.In the ratio a:b,we call a as the first term or antecedent and b, the second term or consequent. Ex: The ratio 3:7represents 3/7Â antecedent=3 and consequent=7.Rule:The multiplication or division of each term of the ratio by the same non-zero number does not affect the ratio. Â Â Â

Product of means=product of extremes

Types of Ratios and Proportions

Types Of Ratios:

Ratios are classified in to six types:Â

- 2)Triplicate ratio: The ratio of the cubes of the two numbers. Ex: 27:64 is the triplicate ratio of 3:4. Â Â Â Â Â Â Â Â Â Â
- 3)Sub-duplicate ratio: The ratio between square root of the two numbers. Ex: 4:5 is the \hat{A} sub-duplicate ratio \hat{A} of 16:25. \hat{A} \hat{A} \hat{A} \hat{A} \hat{A}
- 4)Sub-triplicate ratio: The ratio between the cube roots of the two numbers. Ex: 4:5 is the \hat{A} sub-triplicate \hat{A} of 64:125. \hat{A} \hat{A} \hat{A} \hat{A} \hat{A} \hat{A} \hat{A} \hat{A}
- 6)Compound ratio: The ratio of the product of the first term to that of the second term of two or more ratios. Ex: 3/4,5/7,4/5 and 3/5 is $3/4 \times 5/7 \times 4/5 \times 3/5 = 9/35$.

Check this awesome Z-score Calculator i recently used.

Types Of Proportions:

- 1)Continued proportion: In the proportion 8/12=12/18, 8,12,18 are in the continued proportion. \hat{A} $\hat{A$
- 2)Fourth proportion: If a:b=c:x,then x is called forth proportion of a,b and c. The fourth proportion of

a,b.c =bc/a Â Â Â Â Â Â

4)Second or mean proportion: If a:x=x:b,then x is called second or mean proportion of a and b. Therefore mean proportion of a and b =Root of(ab)

Sample Examples on Ratio and Proportion for Exam Preparations

Example1:Find out the two quantities whose difference is 30 and the ratio between them is 5/11.? Â Â Â Â Â Â Â Â Â Â Â

Answer:

The difference of quantities, which are in the ratio 5:11, is 6.

To make the difference 30, we should multiply then by 5. Â Â Â Â Â Â Â Â Â Â Â Â Â Â Â Â

Therefore 5:11=5x5:11x5=25:55.

Example2:What should be subtract from 15,28,20 and 38 so that the remaining numbers may be proportional? \hat{A} \hat{A} \hat{A} \hat{A} \hat{A} \hat{A}

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Article Keywords:

Ratio and Proportion, Ratio's Examples