



2)Fourth proportion: If $a:b=c:x$, then x is called a fourth proportion of a, b and c . The fourth proportion of

$$a,b.c = bc/a$$

3)Third proportion: If $a:b=b:x$, then x is called a third proportion of a and b . Third proportion of a,b $=b^2/a$

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

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.?

Answer:

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

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

Therefore $5:11=5 \times 5:11 \times 5=25:55$.

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

Answer: If x is subtracted then,

$$(15-x)/(28-x)=(20-x)/(38-x)$$

$$(15-x)(38-x)=(28-x)(20-x)$$

$$x^2-53x+570=x^2-48x+560$$

$$x^2-x^2-53x+48x=560-570$$

$$5x=10$$

$$x=2$$

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