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**SERIES - 1****IMP SERIES Introduced  
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**CLASS – 10<sup>th</sup>****Subject – Mathematics****“Ratio and Proportion”****2 Marks Questions.**

1. If  $14:35::16:x$  then find the value of  $x$ ?
2. Find the fourth proportion in  $2xy, x^2, y^2$  ?

**3 Marks Question.**

1. If the cost of 29 books is Rs.783 then how many books can be purchased in Rs.2214 ?
2. If  $b$  is the mean proportional of  $a$  and  $c$  then prove that  $\frac{a^2+b^2}{ab} = \frac{a+c}{b}$  .
3. A task is completed by 15 men in 16 days. How many men will be needed to complete  $\frac{1}{4}$ th of the task in 15 days?
4. If 11 spiders spin 11 webs in 11 days then how many webs will one spider spin in one day?

**6 Marks Questions.**

1. What should be added to 10,18,22,38 so that they become proportional?
2. Find the numbers whose mean proportional is 24 and third proportional is 192.
3. Find  $x$  if  $(1+x):(3+x):(6+x)$
4. Two numbers are in ratio 3:5. If 9 is subtracted from both the new ratio is 12:23. Find first number.
5. If  $a:b::c:d$  then prove that

$$\frac{a^2-c^2}{b^2-d^2} = \frac{ac}{bd}$$