Question No 3:

Two numbers are in the ratio 3:4. if 6 is added to each term of the ratio, there is increase of 20-percent in the given ratio. Find the first and second number.

Sol: Let First number be = x

" Second number be = $4x$

Now Parts = $3+4 = 7$

$3x : 4x$

According to question

$3x+6 : 4x+6 = 20$

$= \frac{3x}{7}(20)+6 = \frac{4x}{7}(20)+6$

$= \frac{60x}{7}+6 = \frac{80x}{7}+6$

$= 60x - 80x = 6-6$

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$= \frac{60x - 80x}{7} = 0$

$= \frac{20x}{7} = 0$

$= 20x = 7$

$= x = 7 \times 20$

$= x = 140$

$= 3x : 4x$

$= 3(140) : 4(140)$

$= 420 : 560$

$= \frac{3}{4}$ (3,4)

Hence First no is "3" and Second no is "4".

Practice Problems

Example No 10 / Question 1:

In a class, the number of boys is more than the number of girls by 12% of the total strength of the class. Find the ratio of boys to girls.