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

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

$= \frac{3x(20)}{1} + 6 = \frac{4x(20)}{7} + 6$

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

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

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

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

$= 20x = 7$

$= x = 7 \times 20$

$= x = 140$

$= 3x : 4x$

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

$= 420 : 560$

$= \frac{3}{4}$

the entire calculation is wrong but the ans is okay.

but that doesnt matter if only the answer is right.

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.

try googling this question statement.