Square

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We know about $(a+b)^2 = a^2 + 2ab + b^2$

$(a/b)^2 = a^2 / 2ab / b^2$

Ex. $(5\mathrm{C})^2 = (5/\mathrm{C})^2$

$= (5)^2 / 2*5*\mathrm{C} / (\mathrm{C})^2$

$= 25 / 60 / 36$

$= 3136$ //

Ex. $(92)^2 = (9/2)^2 = 81 / 36 / 04$

$= 8464$ //

Ex. $(112)^2$

I $(112)^2 = (11/2)^2$

$= 121 / 44 / 04$

$= 12544$ //

II. $= (1/12)^2$

$= (1)^2 / 24 / 144$

$= 12544$ //

=) If numbers is nearer than 100

Ex: $(96)^2$

- Here 96 is lessthan 100 by 4
  - Find the Square of 4
  - subtract 4 from 96

$(96)^2 = (96-4) \mid (4)^2$

$= 92 \mid 16$

$= 9216$ //

Ex: $(85)^2 = (85-15) \mid (15)^2$

$= 70 \mid 225$

$= 7225$ //

Ex: $(104)^2 = (104+8) \mid (8)^2$

$= 112 \mid 64$

$= 10864$ //

Ex: $(112)^2 = (112+12) \mid (12)^2$

Ex. $(112)^2 = (112+12) \mid (12)^2$

$= 124 \mid 144$

$= 12544$ //

=) If no. is nearer than 200

Ex. $(192)^2 = (192-8) \mid (8)^2$

$= 184 \mid 64$

$\times 2$

$= 368 \mid 64 = 36864$

Ex. $(185)^2 = (185-15) \mid (15)^2$

$= 170 \mid 225$

$\times 2$

$= 34225$ //

Ex. Which no. is nearer than 1000.

Ex. $(998)^2 = (998-2) \mid (2)^2$

$= 9\,9\,6\,/\,0\,0\,4$

$= 9\,9\,6\,0\,0\,4_{//}$

Ex: $(1\,0\,1_2)^2 = (1\,0\,1_2 + 1_2) \,/\, (1_2)^2$

$= 1\,0\,2\,4\,/\,1\,4\,4$

$= 1\,0\,2\,4\,1\,4\,4_{//}$