VIDYA SHREE ACADEMY
SR. SEC. SCHOOL
An English Medium Co.Ed. School | Science & Commerce

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Little Steps
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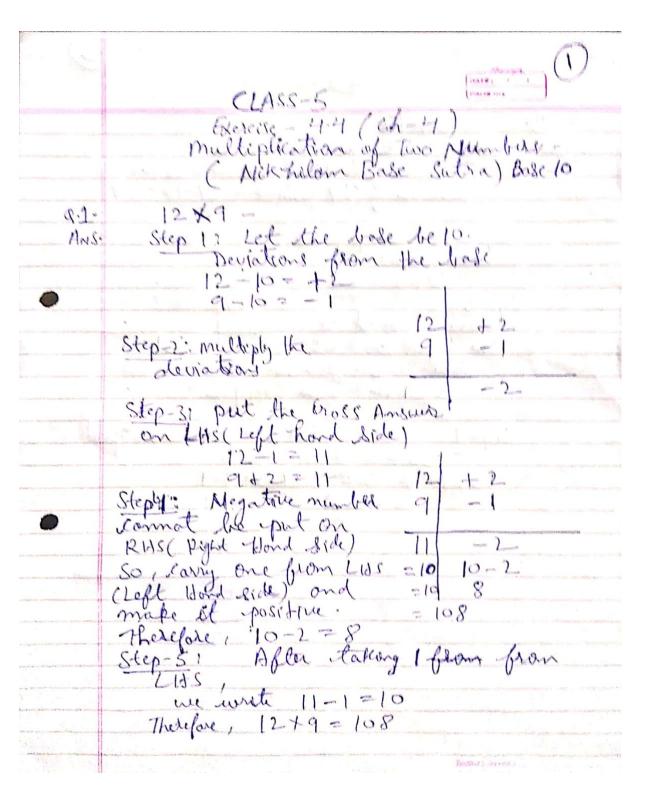Add. : 84, Krishna Vihar, Behind Narayan Niwas, Gopalpura Bypass, Jaipur - 302015
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Sub:Maths   class-5   Topic- Multiplication by Nikhilam sutra base 10.

Do all questions of Exercise-4.4.

EXERCISE 4.4   Use Cordova Smart Class Software on the smart board in class to do Ex

Multiply by Nikhilam sutra on base 10.

1. 12×9 2. 15×12 5. 14×11 6. 9×16

3. 13×17 4. 8×9 7. 12×13 8. 13×10

CLASS-5

Exercise - 1·1 (ch - 1)
Multiplication of Two Numbers -
(Nikhilam Base Sutra) Base 10

Q·1· $12 \times 9 =$

Ans: Step 1: Let the base be 10.
         Deviations from the base
         $12 - 10 = + 2$
         $9 - 10 = - 1$

12	+ 2
9	- 1

Step-2: multiply the
     deviations

	- 2

Step-3: put the cross Answer
on LHS(Left Hand Side)
     $12 - 1 = 11$
     $9 + 2 = 11$

Step-4: Negative number
cannot be put on
RHS(Right Hand Side)
So, carry one from LHS
(Left Hand Side) and
make it positive.
Therefore, $10 - 2 = 8$

12	+ 2
9	- 1
11	- 2
= 10	10 - 2
= 10	8
= 108	

Step-5: After taking 1 from from
     LHS,
     we write $11 - 1 = 10$
Therefore, $12 \times 9 = 108$

Ex.4.4

Q. 3: 13 × 17

Ans: Step1 : Let the base be 10.
Deviation of 13 from 10 = 13-10 = +3
Deviation of 17 from 10 = 17-10 = +7

Step-2: Multiply the deviations
3 × 7 = 21

Step-3: There should be
One digit on RHS
as there is one zero in Both 10. Et cells.
put 1 in RHS & Carry 2.

13	+3
17	+7
	21

Step-4: 13+7 = 17+3 = 20 (Cross Operation)
20+2 (Et cells) = 22.
13 × 17 = 22 × 10 (Base) + 1
= 221

13	+3
17	+7
20+2	1
= 22	1
= 221	

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