

SESSION: 13

CLASS: 3

SUBJECT: MATHEMATICS

CHAPTER NUMBER: 5

CHAPTER NAME: MULTIPLICATION

SUBTOPIC: MULTIPLICATION OF TWO 2-DIGIT NUMBERS

(WITHOUT CARRYOVER)

CHANGING YOUR TOMORROW

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LEARNING OBJECTIVE:

The children will

- * Solve double digit multiplication problems.
- * Students will multiply two two-digit numbers correctly.
- * Students will use multiple strategies for multiplying two-digit numbers.
- * Understand how to multiply larger numbers by using related facts.



MULTIPLICATION OF TWO 2-DIGIT NUMBERS (WITHOUT CARRYOVER)

EXPLANATION:

2 2 x 1 1 by the one's place.

2 2 x 1 1 by the 2 2 ten's place. 2 2 0 22 x 11 2. Put a zero to hold the one's place.

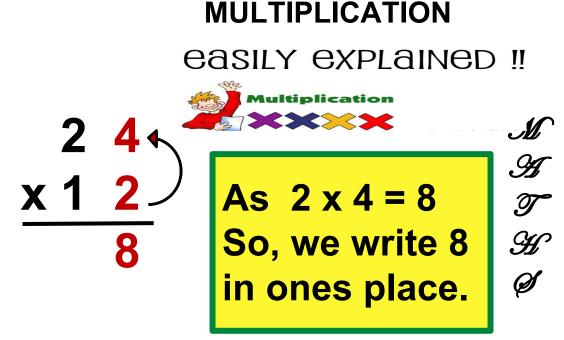
2 2 x 1 1 2 2 + 2 2 0 2 4 2

4. Add the numbers and get the product.



MULTIPLICATION OF TWO 2-DIGIT NUMBERS (WITHOUT CARRYOVER)

Begin with multiplying the bottom ones place with top ones place.





MULTIPLICATION OF TWO 2-DIGIT NUMBERS (WITHOUT CARRYOVER) MULTIPLICATION

easily explained !!



Then multiply the bottom ones place with top tens place.

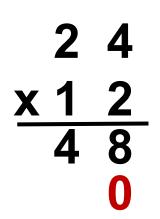
As 2 x 2 = 4, So,we write 4 in tens place.

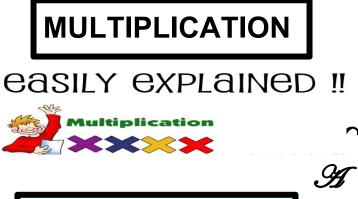


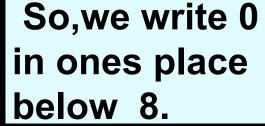


MULTIPLICATION OF TWO 2-DIGIT NUMBERS (WITHOUT CARRYOVER)

We need to write a 0 or X below the ones place as we are going to multiply with tens and to hold the place.





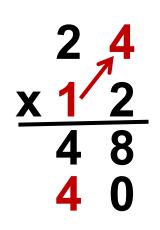




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MULTIPLICATION OF TWO 2-DIGIT NUMBERS (WITHOUT CARRYOVER)

Then multiply the bottom tens place with top ones place.



MULTIPLICATION

easily explained !!



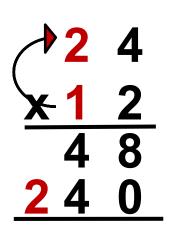
As 1 x 4 = 4, So,we write 4 in tens place.





MULTIPLICATION OF TWO 2-DIGIT NUMBERS (WITHOUT CARRYOVER)

Next multiply the bottom tens place with top tens place.



MULTIPLICATION

easily explained !!



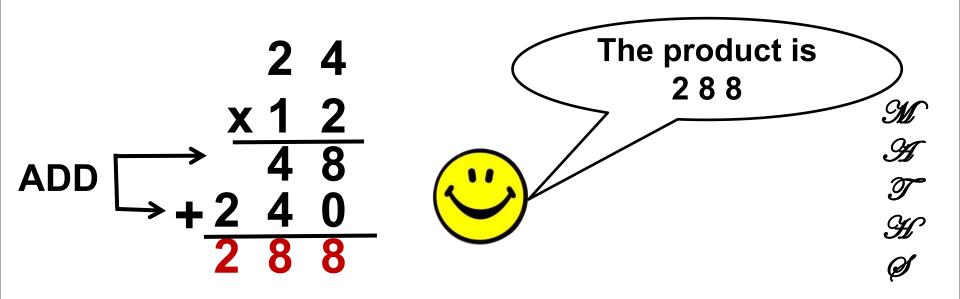
As 1 x 2 = 2, So,we write 2 in hundreds













MULTIPLICATION OF TWO 2-DIGIT NUMBERS (WITHOUT CARRYOVER)

Exercise-5 B (1 to 8) bk. pg. 77 in notebook.





MULTIPLICATION OF TWO 2-DIGIT NUMBERS (WITHOUT CARRYOVER)

Multiply the following.





(3)	1	1	
	X	1	5	
		5	5	
+	1	1	0	
-	1	6	5	





5)	1	4	
	X	1	1	
		1	4	
+	1	4	0	
	1	5	4	





7)	3	3
	X	3	2
	1	6	6
+	9	9	0
1	0	5	6











MULTIPLICATION OF TWO 2-DIGIT NUMBERS (WITHOUT CARRYOVER)

Can you say in a minute ??????

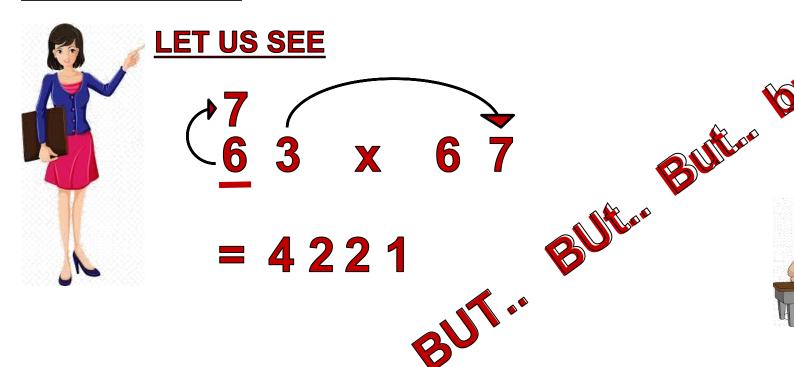
$$63 \times 67 = 4221$$





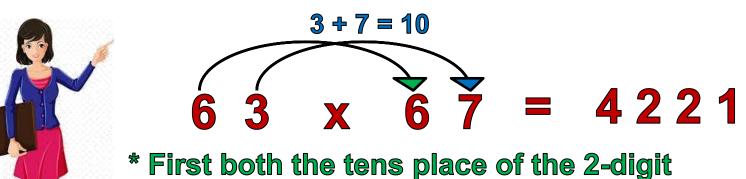
MULTIPLICATION OF TWO 2-DIGIT NUMBERS (WITHOUT CARRYOVER)

EXPLANATION:



MULTIPLICATION OF TWO 2-DIGIT NUMBERS (WITHOUT CARRYOVER)

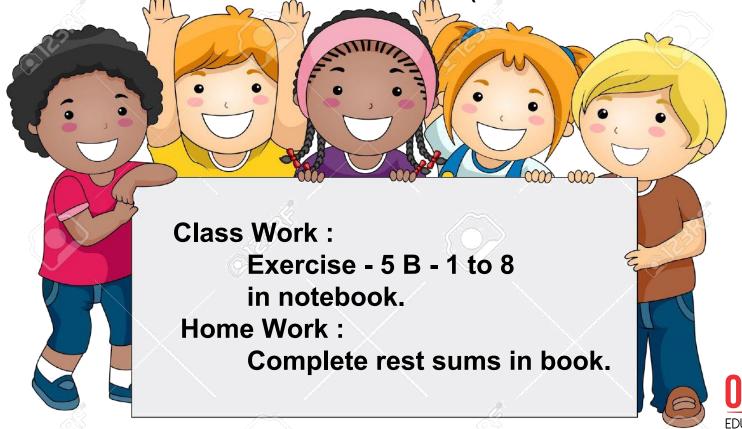
Yes..... It is possible only when



* First both the tens place of the 2-digit numbers should be same.

* Secondly the sum of ones place should be equal to 10.





LEARNING OUTCOME:

Children are confident of solving double digit multiplication problems. They will be able to multiply two two-digit numbers correctly. They will also be able to use multiple strategies for multiplying two-digit numbers and will also be able to apply related facts to multiply larger numbers.



