

**SESSION: 13** 

CLASS: 3

**SUBJECT: MATHEMATICS** 

**CHAPTER NUMBER: 5** 

**CHAPTER NAME: MULTIPLICATION** 

SUBTOPIC: MULTIPLICATION OF TWO 2-DIGIT NUMBERS

(WITHOUT CARRYOVER)

#### **CHANGING YOUR TOMORROW**

Website: www.odmegroup.org Email: info@odmps.org Toll Free: **1800 120 2316**Sishu Vihar, Infocity Road, Patia, Bhubaneswar- 751024

## **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.



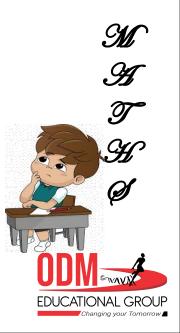
#### **MULTIPLICATION OF TWO 2-DIGIT NUMBERS (WITHOUT CARRYOVER)**

## **EXPLANATION:**

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

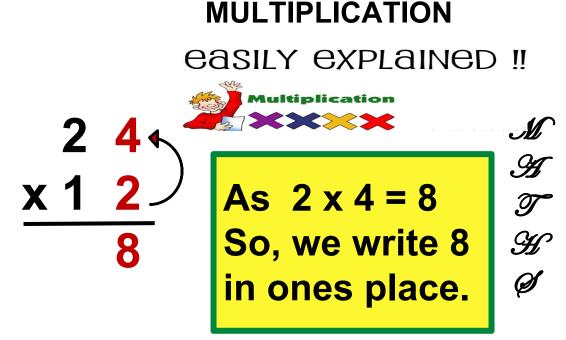
2 2 x 1 1 by the 2 2 ten's place. 2 2 0 2 2 x 1 1 2. Put a zero 2 2 /to hold the one's place.

2 2 x 1 1 2 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)**

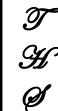
We need to write a 0 or X below the ones place as we are going to multiply with tens and to hold the place.

**MULTIPLICATION** 

easily explained!!



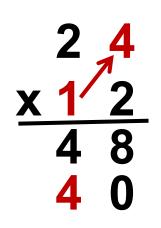
So,we write 0 in ones place below 8.





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

Then multiply the bottom tens place with top ones place.



## **MULTIPLICATION**

easily explained !!



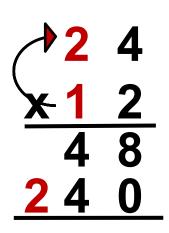
As 1 x 4 = 4, So,we write 4 in tens place.





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

Next multiply the bottom tens place with top tens place.



#### **MULTIPLICATION**

easily explained !!



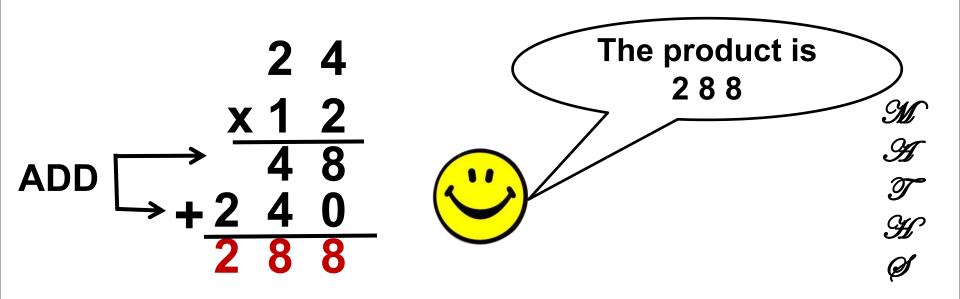
As 1 x 2 = 2, So,we write 2 in hundreds



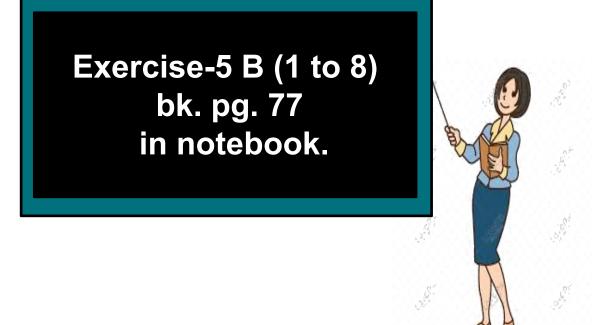
















## **MULTIPLICATION OF TWO 2-DIGIT NUMBERS (WITHOUT CARRYOVER)**

# 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 ??????

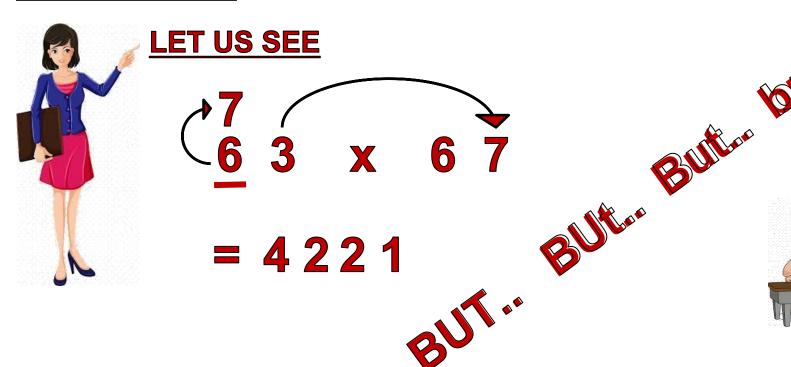
$$63 \times 67 = 4221$$





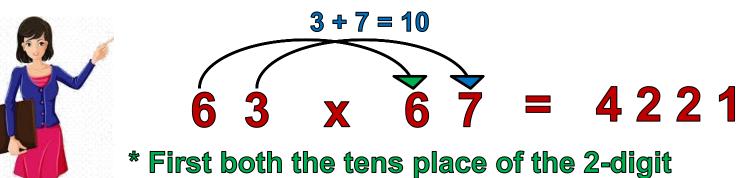
## **MULTIPLICATION OF TWO 2-DIGIT NUMBERS (WITHOUT CARRYOVER)**

## **EXPLANATION:**



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

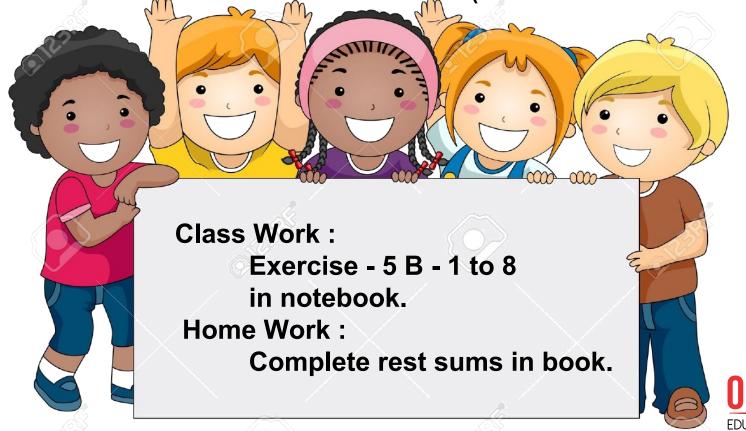
Yes...... It is possible only when



\* 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.



