

SESSION :7

CLASS : I

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 9

CHAPTER NAME : MULTIPLICATION

**SUBTOPIC :MULTIPLICATION: A 2-DIGIT NUMBER BY A
1-DIGIT NUMBER (WITH CARRY OVER)**

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CHANGING YOUR TOMORROW

LEARNING OBJECTIVE :



Enable the learner to multiply
2-digit numbers by 1-digit numbers with
carry over



TODAY'S TOPIC

Multiplication: A 2-digit Number by a 1-digit Number
(with carry over)
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MULTIPLICATION: A 2-DIGIT NUMBER BY A 1-DIGIT NUMBER

$$\begin{array}{r} 52 \\ \times 4 \\ \hline 208 \end{array}$$

$$\begin{array}{r} 44 \\ \times 2 \\ \hline 88 \end{array}$$

$$\begin{array}{r} 82 \\ \times 3 \\ \hline 246 \end{array}$$

$$\begin{array}{r} 79 \\ \times 1 \\ \hline 79 \end{array}$$


$$\begin{array}{r} 41 \\ \times 4 \\ \hline 164 \end{array}$$

$$\begin{array}{r} 30 \\ \times 3 \\ \hline 90 \end{array}$$



MULTIPLICATION : A 2-DIGIT NUMBER BY A 1-DIGIT NUMBER (WITH CARRY OVER)

Example 1:



T	O
4+	
1	8
X	4
7	3 2

Method :

Step 1 : Multiply the ones by 4.

$8 \text{ ones} \times 4 \text{ ones} = 32 = 3 \text{ tens and } 2 \text{ ones.}$
 Write 2 under ones column and carry over 3 tens to the tens column.

Step 2 : Multiply the tens by 4.


$1 \text{ ten} \times 4 = 4 \text{ tens.}$ Add the tens
 $4 \text{ tens} + 3 \text{ tens (carry over)} = 7 \text{ tens.}$
 Write 7 under tens column.

Ans. 72

So, 18 multiplied by 4 equals 72

MULTIPLICATION : A 2-DIGIT NUMBER BY A 1-DIGIT NUMBER (WITH CARRY OVER)

Example 1:



	T	O
12+		
3		6
X		4
14		24

The table shows the multiplication of 36 by 4. The tens column (T) and ones column (O) are labeled at the top. The first row shows '12+' in the tens column and '6' in the ones column. The second row shows '3' in the tens column and '6' in the ones column. The third row shows 'X' in the tens column and '4' in the ones column. The fourth row shows the result '14' in the tens column and '24' in the ones column. A blue arrow points from the '6' in the ones column of the second row to the '2' in the tens column of the fourth row. A green arrow points from the '6' in the ones column of the second row to the '4' in the ones column of the third row. A black oval highlights the '12+' in the tens column of the first row.

Step 1 : Multiply the ones by 4.
 6 ones X 4 ones = 24 = 2 tens and 4 ones . Write 4 ones in ones column and carry over 2 tens to tens column.

Step 2 : Multiply the tens by 4.
 3 tens X 4 = 12. Now add 12 and 2 = 14. Write 14 under tens column.

So, 36 multiplied by 4 equals 144

C.W
Date:

TODAY'S CLASS WORK

Multiply the following

$$\begin{array}{r} \text{T O} \\ \text{O} \\ 26 \\ \times 2 \\ \hline 512 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \text{O} \\ 28 \\ \times 2 \\ \hline 516 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \text{O} \\ 29 \\ \times 4 \\ \hline 1136 \end{array}$$

$$\begin{array}{r} \text{T O} \\ \text{O} \\ 37 \\ \times 2 \\ \hline 714 \end{array}$$



C.W
Date:

TODAY'S CLASS WORK

T O



1 8

x 3

5 2 4

T O



1 7

x 4

6 2 8

T O



2 8

x 3

8 2 4

T O



2 9

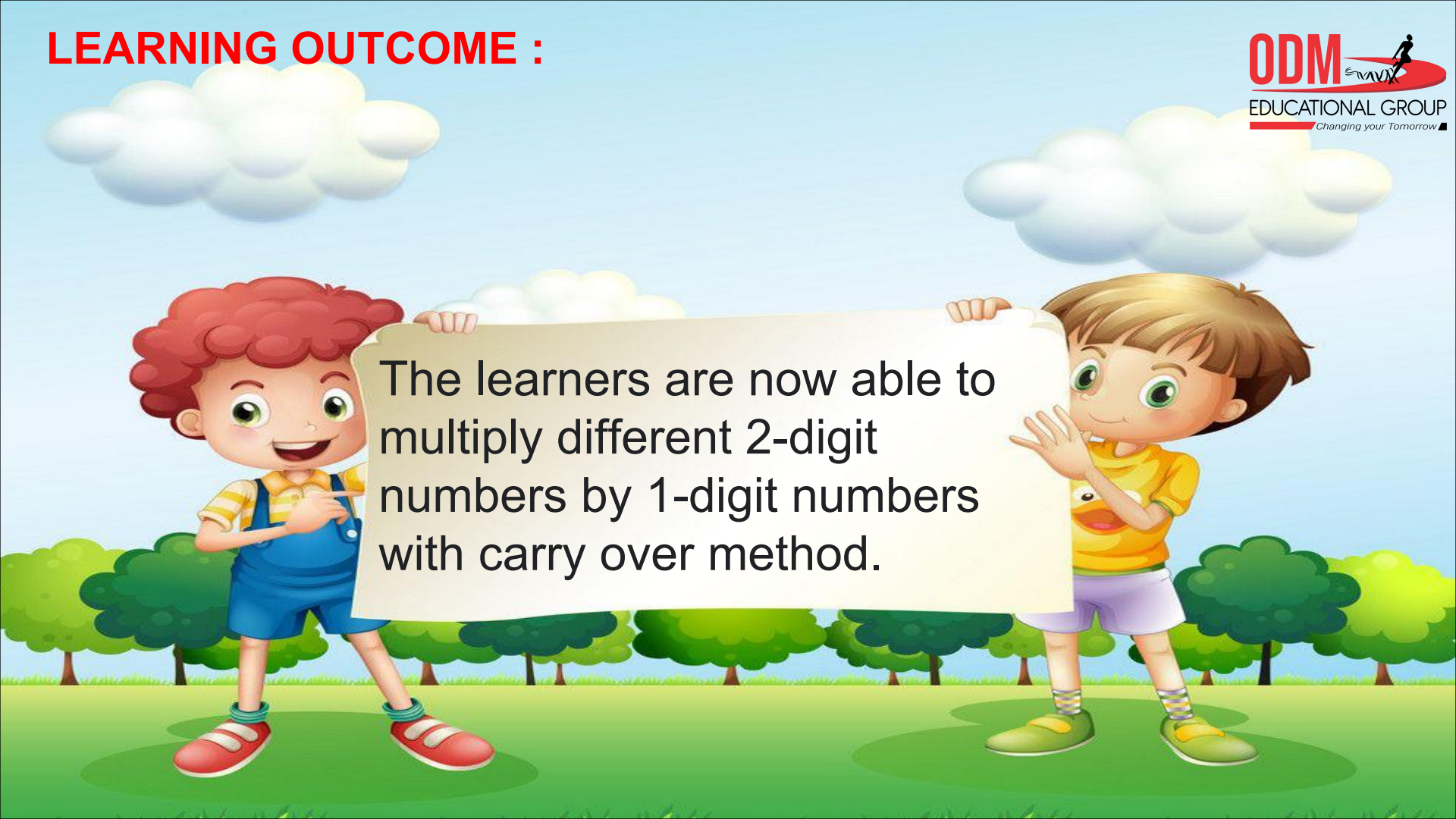
x 5

14 4 5



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LEARNING OUTCOME :



The learners are now able to multiply different 2-digit numbers by 1-digit numbers by 1-digit numbers with carry over method.

THANKING YOU
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