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SESSION : 14
CLASS : 3
SUBJECT : MATHEMATICS
CHAPTER NUMBER: 5
CHAPTER NAME : MULTIPLICATION
SUBTOPIC : MULTIPLICATION OF 3-DIGIT NUMBER BY A 2-DIGIT NUMBER

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LEARNING OBJECTIVE :

The children will

*Solve problems involving multiplication, using materials, arrays, repeated addition, mental methods, and multiplication facts, including problems in context.

MULTIPLICATION

MULTIPLICATION OF 3-DIGIT NUMBER BY A 2-DIGIT NUMBER

EXPLANATION:

Step 1:

$$\begin{array}{r} 324 \\ \times \quad 46 \\ \hline 1944 \end{array}$$

Step 2:

$$\begin{array}{r} 324 \\ \times \quad 46 \\ \hline 1944 \\ +\ 12960 \\ \hline 14904 \end{array}$$

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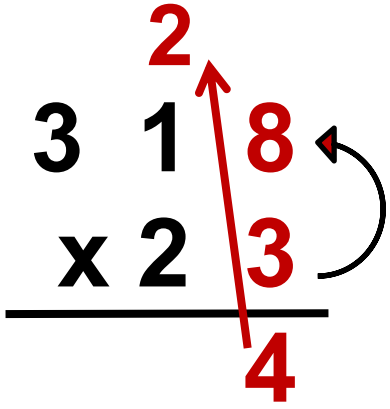
MULTIPLICATION

MULTIPLICATION OF 3-DIGIT NUMBER BY A 2-DIGIT NUMBER

easily explained !!

MULTIPLICATION

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



As 3 x 8 = 2 4
So, we write in ones place 4 and carry 2 to the tens place.

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MULTIPLICATION

MULTIPLICATION OF 3-DIGIT NUMBER BY A 2-DIGIT NUMBER

easily explained !!

MULTIPLICATION

Then multiply the bottom ones place with top tens place and do not forget to add the carry over if it is there.

$$\begin{array}{r} {\scriptstyle 2} \\ 318 \\ \times\ 23 \\ \hline 54 \end{array}$$

As 3 x 1 = 3,
3 + 2 = 5
So,we write 5 in tens place.

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MULTIPLICATION

MULTIPLICATION OF 3-DIGIT NUMBER BY A 2-DIGIT NUMBER

easily explained !!

MULTIPLICATION

Then multiply the bottom ones place with top hundreds place and do not forget to add the carry over if it is there.

```
    2
  3 1 8
x   2 3
-------
  9 5 4
```

As 3 x 3 = 9, So,we write 9 in hundreds place.

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MULTIPLICATION OF 3-DIGIT NUMBER BY A 2-DIGIT NUMBER

easily explained !!

MULTIPLICATION

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.

$$\begin{array}{r} 318 \\ \times\ 23 \\ \hline 954 \\ 0 \end{array}$$

So,we write 0 in ones place below 4.

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MULTIPLICATION

MULTIPLICATION OF 3-DIGIT NUMBER BY A 2-DIGIT NUMBER

easily explained !!

MULTIPLICATION

$$\begin{array}{r} {\scriptstyle 1} \\ 3\ 1\ 8 \\ \times\ 2\ 3 \\ \hline 9\ 5\ 4 \\ 6\ 0 \\ \hline \end{array}$$

Then multiply the bottom tens place with top ones place.

As 2 x 8 = 16, So,we write 6 below 5 and carry 1 to tens place.

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MULTIPLICATION

MULTIPLICATION OF 3-DIGIT NUMBER BY A 2-DIGIT NUMBER

easily explained !!

MULTIPLICATION

$$\begin{array}{r} {\scriptstyle 1} \\ 318 \\ \times\ 23 \\ \hline 954 \\ 360 \\ \hline \end{array}$$

Next multiply the bottom tens place with top tens place.

As 2 x 1 = 2,
2 + 1 = 3
So,we write 3 in hundreds place.

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MULTIPLICATION

MULTIPLICATION OF 3-DIGIT NUMBER BY A 2-DIGIT NUMBER

easily explained !!

MULTIPLICATION

Next multiply the bottom tens place with top hundreds place.

$$\begin{array}{r} 3\ 1\ 8 \\ \times\ 2\ 3 \\ \hline 9\ 5\ 4 \\ 6\ 3\ 6\ 0 \\ \hline \end{array}$$

As 2 x 3 = 6, So,we write 6 in thousands place.

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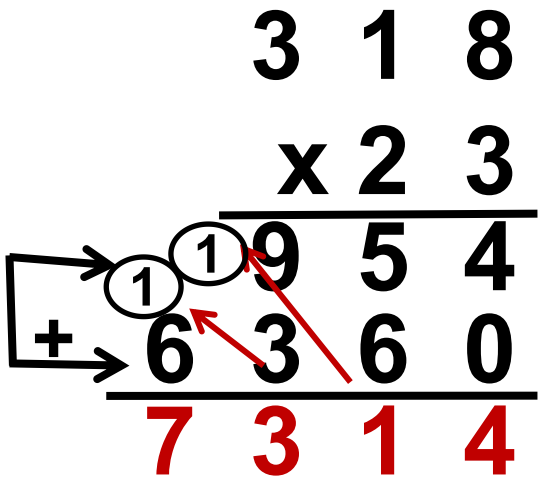

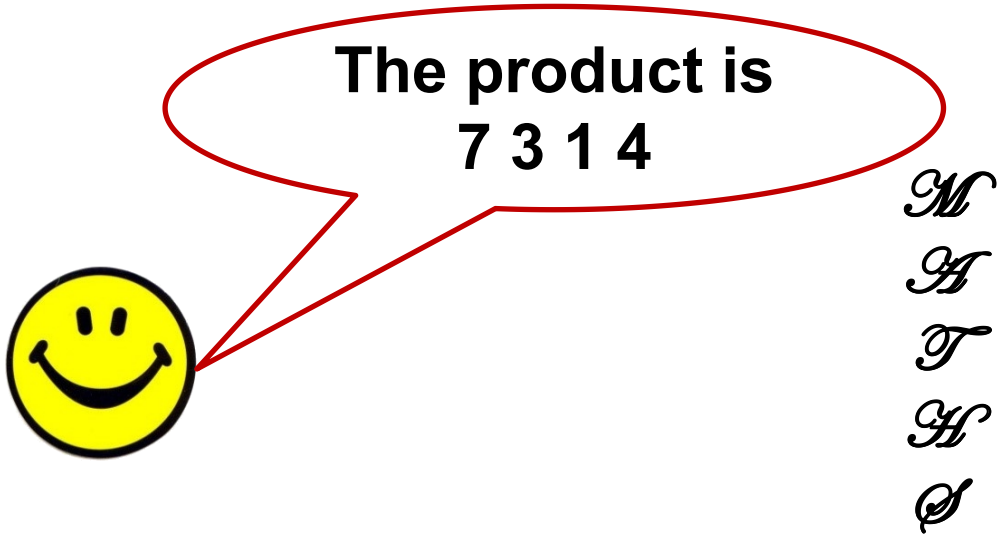

MULTIPLICATION

EASILY EXPLAINED !!

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MULTIPLICATION

MULTIPLICATION OF 3-DIGIT NUMBER BY A 2-DIGIT NUMBER

Exercise - 5 C - 1 to 8
bk. pg. 78 and 79
in notebook.

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MULTIPLICATION

MULTIPLICATION OF TWO 2-DIGIT NUMBERS (WITHOUT CARRYOVER)

Multiply the following.

① ~~7~~ ~~7~~

$$\begin{array}{r} 399 \\ \times\ \ 18 \\ \hline {}^{1}3{}^{1}1\ 9\ 2 \\ +\ 3\ 9\ 9\ 0 \\ \hline 7\ 1\ 8\ 2 \end{array}$$

② ~~8~~ ~~8~~

$$\begin{array}{r} 489 \\ \times\ \ 19 \\ \hline {}^{1}4\ 4\ 0\ 1 \\ +\ 4\ 8\ 9\ 0 \\ \hline 9\ 2\ 9\ 1 \end{array}$$

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MULTIPLICATION

MULTIPLICATION OF TWO 2-DIGIT NUMBERS (WITHOUT CARRYOVER)

③

$$\begin{array}{r} \cancel{5}\ \cancel{4} \\ 5\ 7\ 6 \\ \times\quad 1\ 7 \\ \hline 4\ 0\ 3\ 2 \\ +\ 5\ 7\ 6\ 0 \\ \hline 9\ 7\ 9\ 2 \end{array}$$

④

$$\begin{array}{r} \cancel{1} \\ 7\ 5\ 3 \\ \times\quad 1\ 3 \\ \hline 2\ 2\ 5\ 9 \\ +\ 7\ 5\ 3\ 0 \\ \hline 9\ 7\ 8\ 9 \end{array}$$

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MULTIPLICATION

MULTIPLICATION OF TWO 2-DIGIT NUMBERS (WITHOUT CARRYOVER)

(5)

```
      1
    8 2 6
x     1 2
---------
  1 ¹6 5 2
+ 8 2 6 0
---------
  9 9 1 2
```

(6)

```
    1 2
    1 3
    2 4 8
x     3 4
---------
   ¹9 9 2
+ ¹7 4 4 0
---------
  8 4 3 2
```

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MULTIPLICATION

MULTIPLICATION OF TWO 2-DIGIT NUMBERS (WITHOUT CARRYOVER)

⑦

$$\begin{array}{r} {\scriptstyle 1\ 1} \\ 4\ 6 \\ \hline 1\ 5\ 8 \\ \times\quad 2\ 8 \\ \hline 1^{1}2\ 6\ 4 \\ +\ 3\ 1\ 6\ 0 \\ \hline 4\ 4\ 2\ 4 \end{array}$$

⑧

$$\begin{array}{r} {\scriptstyle 1\ 1} \\ 2\ 1 \\ \hline 3\ 7\ 5 \\ \times\quad 2\ 3 \\ \hline 1\ 1\ 2\ 5 \\ +\ 7\ 5\ 0\ 0 \\ \hline 8\ 6\ 2\ 5 \end{array}$$

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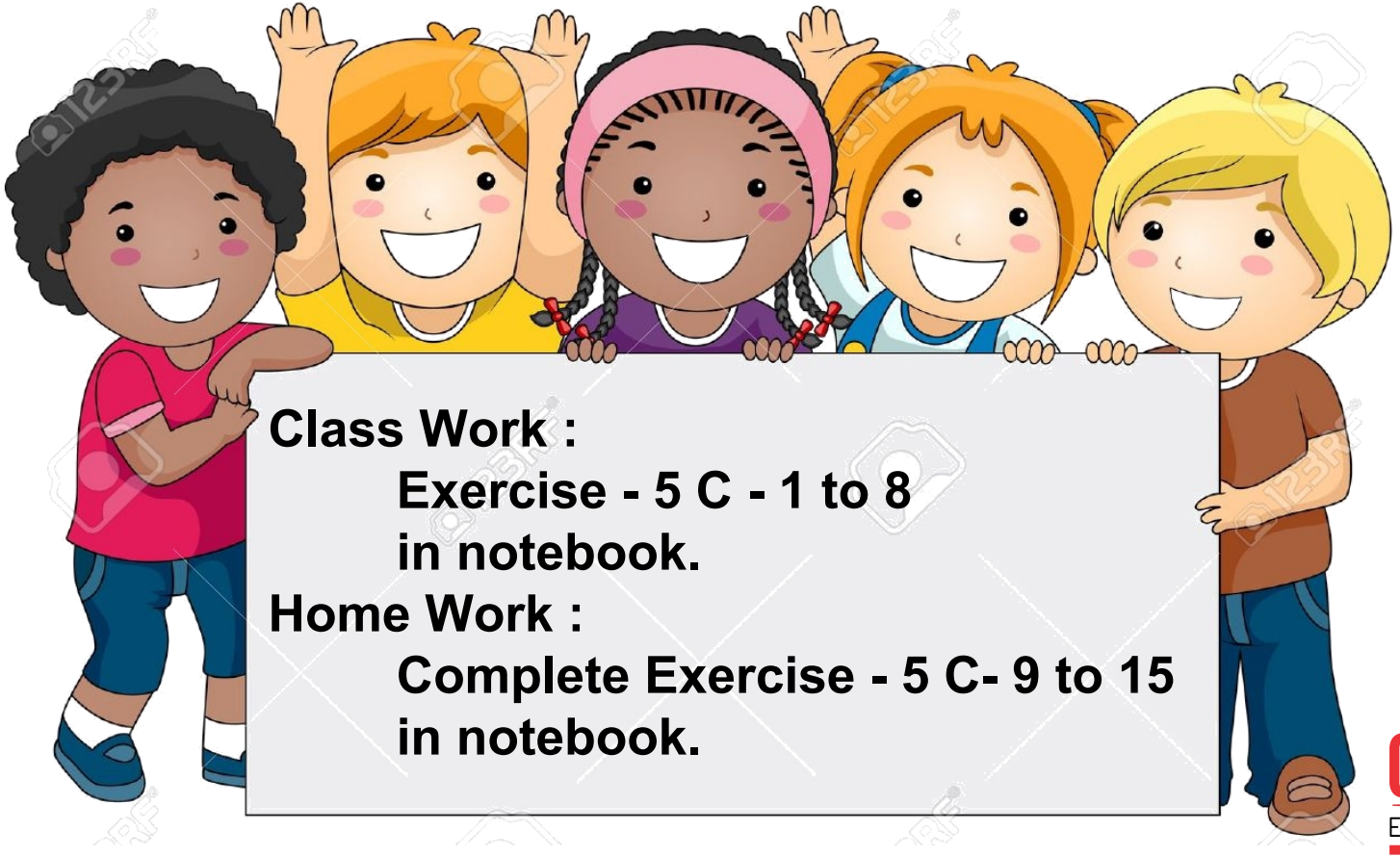

Class Work :

Exercise - 5 C - 1 to 8
in notebook.

Home Work :

Complete Exercise - 5 C- 9 to 15
in notebook.

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LEARNING OUTCOME:

Children are confident to solve problems involving multiplication, using materials, arrays, repeated addition, mental methods, and multiplication facts, including problems in contexts.

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