



TOPIC: MULTIPLICATION

NOTE- 1

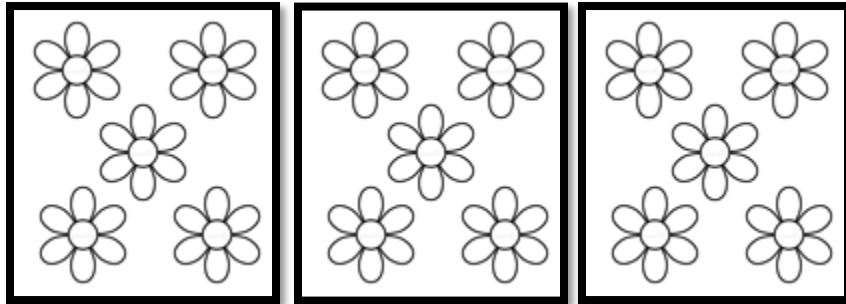
RESOURCE PERSON: Mrs. Savitha D'Souza

NAME: _____ CLASS: II SEC: _____ DATE: _____

Multiplication Facts

- Multiplication is **repeated addition** of numbers. It is a faster way of adding.
- The sign for Multiplication is '**x**' (**into**)
- The answer of multiplication is called '**product**'.
- In multiplication we make groups of things. A group is a set of things.

Example



No. of groups: 3

No. of flowers in each group: 5

Total no. of flowers: 15

Addition Sentence: $5 + 5 + 5 = 15$

Multiplication Sentence: $3 \times 5 = 15$



LESSON: MULTIPLICATION

NOTE- 2

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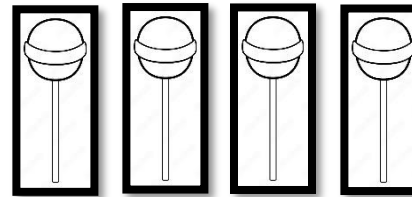
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Properties of Multiplication

1. Multiplying by 1

Any number multiplied by 1, gives the **same number** as the product.

e.g.



$$1 + 1 + 1 + 1 = 4$$

$$4 \times 1 = 4$$

2. Multiplying by 0

Any number multiplied by zero gives the product as **zero**.

e.g.



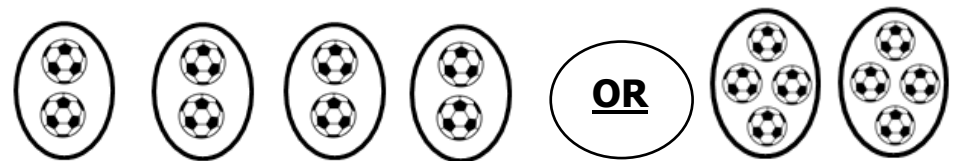
$$0 + 0 = 0$$

$$2 \times 0 = 0$$

3. Order in Multiplication

On changing the order of the numbers being multiplied, the product remains the **same**.

e.g.



$$2 + 2 + 2 + 2 = 8$$

$$4 \times 2 = 8$$

$$4 + 4 = 8$$

$$2 \times 4 = 8$$



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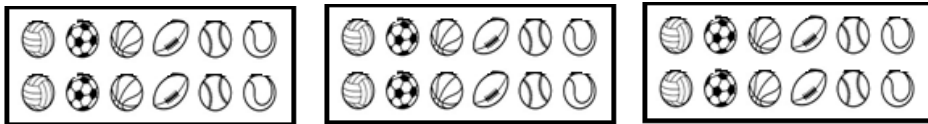
NOTE – 3

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**MULTIPLICATION OF TWO DIGIT BY ONE DIGIT
WITHOUT REGROUPING**

1. **STEP 1:-** Think about 3 groups of 12 each.



Arrange the numbers according to their places.

$$\begin{array}{r} \text{T O} \\ 12 \\ \times 3 \\ \hline \end{array}$$

2. **STEP 2:** Multiply the ones place and write the answer after multiplying $2 \times 3 = 6$ in the ones place.

$$\begin{array}{r} \text{T O} \\ 12 \\ \times 3 \\ \hline 6 \end{array}$$

3. **STEP 3:** Multiply the number '1' in the tens place with the number '3' in the ones place and write the answer in the tens place.

$$\begin{array}{r} \text{T O} \\ 12 \\ \times 3 \\ \hline 36 \end{array}$$

4. **Step 4: The final product is 36**



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**MULTIPLICATION OF TWO DIGIT BY ONE DIGIT WITH
REGROUPING**

1. **STEP 1: Multiply 15×5**

Arrange the numbers according to their places.

$$\begin{array}{r} \text{T O} \\ 15 \\ \times 5 \\ \hline \end{array}$$

2. **STEP 2:** Multiply the ones $5 \times 5 = 25$ ones

20 ones will be regrouped as 2 tens and 5 ones

$$\begin{array}{r} \text{T O} \\ 2 \\ 15 \\ \times 5 \\ \hline 5 \end{array}$$

3. **STEP 3:** Multiply the digit in the ten's place with the digit in the one's place. Then add the digit that was carried over.

$$\begin{array}{l} 1 \times 5 = 5 \\ 5 + 2 = 7 \end{array}$$

$$\begin{array}{r} \text{T O} \\ +2 \\ 15 \\ \times 5 \\ \hline 75 \end{array}$$

4. **Step 4: The final product is 75**



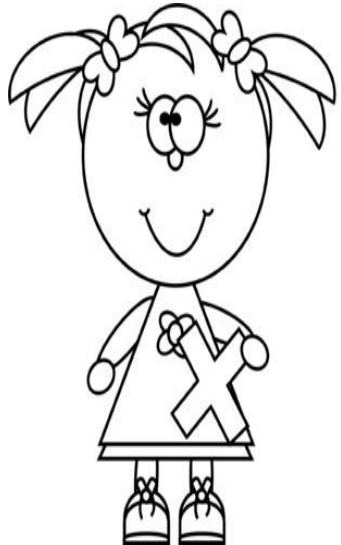
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Vocabulary used in Multiplication



- into
- multiplied by
- times
- product of
- each
- altogether
- in all



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Notebook Exercise

RESOURCE PERSON: Mrs. Savitha D'Souza

NAME: _____ CLASS: II SEC: ____ DATE: _____

Word Problems

Solve the given word problems in your notebook.

- a. There are 12 tables in a class. Each table has 4 legs. How many legs of the tables are there in all?
- b. Tania saw 15 butterflies in her garden. Each butterfly has 6 dots on its wings. How many dots did Tania count in all?
- c. Shannon worked 4 hours a day, for 15 days. How many hours did she work in total?
- d. If a baker makes 16 cupcakes and each cupcake has 2 cherries on top, how many cherries are used in total?
- e. Kate bought 4 trays of eggs and each tray had 6 eggs. How many eggs did Kate buy in all?

