SYNOPSIS **:**

Multiplication means **repeated addition.**

MULTIPLYING BY 3

2 buttons with 3 holes each = 6 holes.
2 groups of 3 are 6, 2 times 3 is 6.
$2 \times 3 = 6$.
Some other examples are :
a. $2 \times 4 = 8$, 2 times 4 is 8.
b. $4 \times 3 = 12$, 4 times 3 is 12.

MULTIPLYING BY 4

2 baskets with 4 apples each = 8 apples.
2 groups of 4 are 8, 2 times 4 is 8.
$2 \times 4 = 8$.
Some other examples are :
a. $4 \times 4 = 16$, 4 times 4 is 16.
b. $5 \times 4 = 20$, 5 times 4 is 20.

MULTIPLYING BY 6

2 trays with 6 cupcakes each =12.
2 groups of 6 are 12, 2 times 6 is 12.
$2 \times 6 = 12$.
Some other examples are :
a. $4 \times 6 = 24$, 4 times 6 is 24.
b. $3 \times 6 = 18$, 3 times 6 is 18.

ORDER IN MULTIPLICATION

5 groups of 4 or 5 fours.

5 × 4 = 20.

4 groups of 5 or 4 fives.

4 × 5 = 20.

Thus, 5 × 4 = 4 × 5.

Some other examples :

2 groups of 3 or 2 threes.

2 × 3 = 6.

3 groups of 2 or 3 twos.

3 × 2 = 6.

Thus, 2 × 3 = 3 × 2.

MULTIPLYING 2 – DIGIT NUMBERS

There are 11 pairs of shoes. How many shoes are there in all ?

2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2

11 times 2 or 11 × 2 = 22.

Step 1 :

Write the numbers in columns.

```
  T  O
  1  1    ➡  Greater Number
×    2    ➡   Smaller Number
  _____
```

Step 2 :
Multiply the **ones** by 2.

```
        T   O
        1   1
    ×       2
            2
```

Step 3 :
Multiply the **tens** by 2.

```
        T   O
        1   1
    ×       2
        2   2
```

Ans. There are **22** shoes.

MULTIPLICATION WITH REGROUPING
Regrouping Ones
There are 4 notebooks. Each notebook has 24 sheets.
How many sheets are there in all ?

Multiply 24 by 4 to find out the number of sheets.

Step 1 :
Write the numbers in columns.

```
     T   O
     2   4        ➡   Greater Number
   ×     4        ➡   Smaller Number
   _____
```

Step 2 :
Multiply the **ones** by 4.

```
     T   O
     2   4
   ×     4
   _____
```

Step 3 :
Regroup **16 ones** into **1 ten** and **6 ones**.

```
  T   O
  1
  2   4
×     4
_____
      6
```

Step 3 :
Multiply the **tens** by 4 and add **1 ten.**

```
  T   O
  1
  2   4
×     4
_____
  9   6
```
Ans. There are **96** sheets in 4 notebooks.

Regrouping Tens
There are 6 bouquets of flowers. There are 21 flowers in each bouquet. How many flowers are there in all ?

Multiply 21 by 6 to find out the number of flowers.

Step 1 :   **Step 2 :**
Multiply the **ones** by 6.   Multiply the **tens** by 6.

```
  T   O                        H    T   O
  2   1                             2   1
×     6                        ×         6
_____                        _____
      6                        1    2   6
```
Ans. There are **126** flowers in 6 bouquets.

Regrouping Ones and Tens
Multiply the number 26 by 6.

Step 1 :   **Step : 2**
Multiply the **ones** by 6.   Multiply the **tens** by 6.

```
  T   O                        H    T   O
                                    3
  2   6                             2   6
×     6                        ×         6
_____                        _____
      6                        1    5   6
```
Ans. **156**.

I.   **Multiply :**
   a.   2 × 4 =
   b.   4 × 5 =
   c.   3 × 6 =
   d.   7 × 3 =

II.   **Multiply :**

a. **T O**	b. **T O**	c. **T O**	d. **T O**
4 1	6 2	3 2	6 5
× 3	× 4	× 5	× 4
____	_____	____	____

TEXTBOOK EXERCISES :

- **Page 105 :** Count the balloons to build the table of 3. Say the 3 times ta aloud.
- **Page 106 :** Count the leaves to build the table of 4. Say the 4 times table aloud.
- **Page 107 :** Count the stars to build the table of 6.
- **Page 108 :** Exercise 7.1 - A (First 4 horizontally) and B (First 4 horizontally).
- **Page 113 :** Exercise 7.3 – A (First 4 horizontally).
- **Page 116 :** Exercise 7.4 – A (First 4 horizontally).
- **Learn the tables from 2 to 10.**

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