

WORKSHEET-1

Subject – Maths

Class –IV (Chapter 4)

TOPIC – MULTIPLICATION

If each box has 35 apples. How many apples are there in all?

$$35 + 35 + 35 + 35 = 140$$

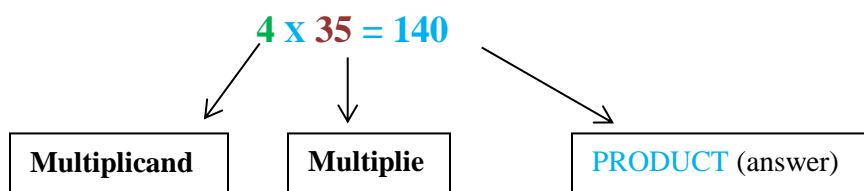


$$\boxed{35} + \boxed{35} + \boxed{35} + \boxed{35} = \boxed{140}$$

Total number of apples in 4 boxes

$$4 \times 35 = 140$$

So, we see MULTIPLICATION is simply repeated addition.



Multiplicand – The number to be multiplied is called multiplicand. In the above question 4 is the multiplicand.

Multiplier – The number that the multiplicand is multiplied by is called multiplier. In the above question 35 is the multiplier.

PRODUCT → The answer in multiplication is called
In the above example, 140 is the product.

PRODUCT

NOTE

- When we multiply any number by 0 (zero) the answer is zero.
Example – $72 \times 0 = 0$ (Product) answer
- When we multiply any number by 1 the answer is the number itself.

MULTIPLICATION BY 10 (Ten)

Example – $72 \times 1 = 72$

Multiply a number by 10, put a zero to right of the number.

Example:

$$32 \times 10 = 320$$

$$\text{Ans} = 320$$

$$45 \times 10 = 450$$

$$\text{Ans} = 450$$

MULTIPLICATION BY 100 (Hundred)

To multiply a number by 100, put two zeroes to right of the number.

Example:

$$32 \times 100 = 3200$$

$$\text{Ans} = 3200$$

$$45 \times 100 = 4500$$

$$\text{Ans} = 4500$$

MULTIPLICATION BY 1000 (Thousand)

To multiply a number by 1000, put three zeroes to right of the number.

Example:

$$32 \times 1000 = 32000$$

$$\text{Ans} = 32000$$

$$45 \times 1000 = 45000$$

$$\text{Ans} = 45000$$

Q1. Fill in the blanks.

1) $32 \times 1 =$

2) $24 \times 1 =$

3) $62 \times 0 =$

4) $43 \times 0 =$

5) $44 \times 10 =$

6) $5217 \times 100 =$

7) $3271 \times 10 =$

8) $1244 \times 1000 =$

9) $23 \times 100 =$

10) $459 \times 1000 =$

MULTIPLICATION BY 2-DIGIT NUMBER

Example – Multiply 326 by 96

Here 326 – **Multiplicand**

And 96 – **Multiplier**

We have to find the **Product**

Steps to Multiply

Step 1. Arrange the numbers as shown. Put the sign of multiplication (X)

$$\begin{array}{r} 326 \\ \times 96 \\ \hline \\ \hline \end{array}$$

Step 2. Multiply the number in ones place, here it is 6 with multiplicand 326.

So 326×6

$$\begin{array}{r} 326 \\ \times 6 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \boxed{1} \boxed{3} \\ 326 \\ \times 6 \\ \hline 1956 \end{array}$$

WORKING

$$6 \times 6 = 36 \text{ carry over } 3$$

$$6 \times 2 = 12$$

$$12 + 3 = 15 \text{ carry over } 1$$

$$3 \times 6 = 18$$

$$18 + 1 = 19$$

Step 3. Now multiply the number in the tens place here it is 9 with multiplicand which is 326 before multiplying put a zero (0) below the **PRODUCT** in ones place.

So 326×9

$$\begin{array}{r} 326 \\ \times 9 \\ \hline 1956 \\ 0 \end{array}$$

WORKING

$$9 \times 6 = 54 \text{ carry over } 5$$

$$9 \times 2 = 18$$

$$18 + 5 = 23 \text{ carry over } 2$$

$$\begin{array}{r}
 326 \\
 \times 96 \\
 \hline
 1956 \\
 29340 \\
 \hline
 \end{array}$$

$$\begin{array}{l}
 9 \times 3 = 27 \\
 27 + 2 = 29
 \end{array}$$

Step4. Put sign of addition (+) as shown:

$$\begin{array}{r}
 326 \\
 \times 96 \\
 \hline
 1956 \\
 +29340 \\
 \hline
 \end{array}$$

Step 5. Now Add

$$\begin{array}{r}
 326 \\
 \times 96 \\
 \hline
 \boxed{1} \\
 \boxed{1} 1956 \\
 + 29340 \\
 \hline
 31296 \\
 \hline
 \end{array}$$

Product: 31296

MULTIPLICATION BY 3-DIGIT NUMBER

Example – Multiply 873 by 125

Here 873 – **Multiplicand**

And 125 – **Multiplier**

We have to find the **Product**

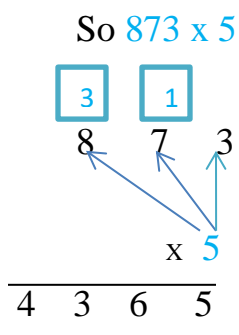
Steps to Multiply

Step1. Arrange the numbers as shown. Put the sign of multiplication (X)

$$\begin{array}{r} 873 \\ \times 125 \\ \hline \\ \hline \end{array}$$

Step2. Multiply the number in ones place, here it is 5 with multiplicand 873.

So 873×5


$$\begin{array}{r} 873 \\ \times 5 \\ \hline 4365 \end{array}$$

WORKING

$$5 \times 3 = 15$$

Carry over 1

$$5 \times 7 = 35$$

$$35 + 1 = 36$$

Carry over 3

$$5 \times 8 = 40$$

$$40 + 3 = 43$$

Step3. Now multiply the number in the tens place in Multiplier (125) which is 2 with multiplicand 873. Before this put a zero below the ones place in the product 4365.

$$\begin{array}{r} 873 \\ \times 25 \\ \hline 4365 \text{ (Product)} \\ 17460 \end{array}$$

WORKING

$$2 \times 3 = 6$$

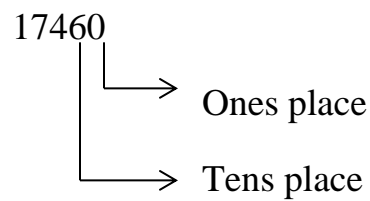
$$2 \times 7 = 14$$

Carry over 1

$$8 \times 2 = 16$$

$$16 + 1 = 17$$

Step 4. Now multiply the number in hundreds place in **Multiplier** which is **1**(here). Multiply 873 with **1**. Before this put two zeroes (00) below the ones and tens place in the product **17460**. Put the sign of addition (+).



$$\begin{array}{r}
 873 \\
 \times 125 \\
 \hline
 4365 \\
 17460 \text{ (Product)} \\
 + \quad 00 \\
 \hline
 \end{array}$$

Step 5. Now add

$$\begin{array}{r}
 \boxed{1} \boxed{1} \boxed{1} \\
 \boxed{1} 4 3 6 5 \\
 1 7 4 6 0 \\
 + 8 7 3 0 0 \\
 \hline
 1 0 9 1 2 5
 \end{array}$$

PRODUCT = **109125**

ANSWER = 109125

QII. Multiply the following

1.
$$\begin{array}{r} 648 \\ \times 32 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 4597 \\ \times 25 \\ \hline \end{array}$$

3. Multiply 936 by 47

4. Multiply 224 by 133

5. Multiply 173 by 241

6. Multiply 445 by 28

X