

**MATHS LANGUAGE FORMAT USED FOR TEACHING OPERATIONS IN
THIRD/FOURTH CLASS**

MULTIPLYING BY 10

When you multiply by ten, move one column to the left. You show this by putting zero in the units place.

Example :
$$\begin{array}{r} \text{T U} \\ 28 \times 10 \end{array} = \begin{array}{r} \text{H T U} \\ 280 \end{array}$$

MULTIPLYING BY 10s (for example 20, 30, 40)

Example: 23×20

Step 1 Multiply by 10

$$\begin{array}{r} 23 \\ \times 20 \\ \hline 0 \end{array}$$

Put down zero to indicate you are moving one column to the left.

Step 2 Multiply the top number by 2

$$\begin{array}{r} 23 \\ \times 20 \\ \hline 460 \end{array}$$

2 3s are 6.
2 3s are 4.

MULTIPLYING BY 100

When you multiply by one hundred, move two columns to the left. Put zero in the units place and zero in the tens place.

Example:
$$\begin{array}{r} \text{T U} \\ 28 \times 100 \end{array} = \begin{array}{r} \text{Th H T U} \\ 2800 \end{array}$$

MULTIPLYING BY 100s (for example 200, 300, 400)

Example 23×300

Step 1 Multiply by 100

$$\begin{array}{r} 23 \\ \times 300 \\ \hline 00 \end{array}$$

Put down two zeros to show you are moving two columns to the left.

Step 2 Multiply the top number by 3

$$\begin{array}{r} 23 \\ \times 300 \\ \hline 6900 \end{array}$$

3 3s are 9.
3 2s are 6.

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THIRD / FOURTH CLASS**

THE WAY LONG MULTIPLICATION IS TAUGHT

In the example below (24 x 23) we multiply 24 first by 3 units and then by 20. Remember, in the number 23 the 2 is in the tens place so it is 2 tens i.e. 20.

<i>Example 2</i>																											
Step	Method	Sum	Words Used																								
1	<ul style="list-style-type: none"> • Multiply 24 by 3. 	<table style="margin-left: auto; margin-right: auto;"> <tr><td></td><td>H</td><td>T</td><td>U</td></tr> <tr><td></td><td></td><td>2</td><td>4</td></tr> <tr><td>x</td><td></td><td><u>2</u>₁</td><td><u>3</u></td></tr> <tr><td></td><td></td><td>7</td><td>2</td></tr> </table>		H	T	U			2	4	x		<u>2</u> ₁	<u>3</u>			7	2	<ul style="list-style-type: none"> • 3 4s are 12. • Put down the 2 (units) and carry the 1 (ten). • 3 2s are 6 plus the 1 we carried over equals 7. 								
	H	T	U																								
		2	4																								
x		<u>2</u> ₁	<u>3</u>																								
		7	2																								
2	<ul style="list-style-type: none"> • Multiply 24 by 20 (2 tens). 	<table style="margin-left: auto; margin-right: auto;"> <tr><td></td><td>H</td><td>T</td><td>U</td></tr> <tr><td></td><td></td><td>2</td><td>4</td></tr> <tr><td>x</td><td></td><td><u>2</u>₁</td><td><u>3</u></td></tr> <tr><td></td><td></td><td>7</td><td>2</td></tr> <tr><td>+</td><td>4</td><td>8</td><td>0</td></tr> </table>		H	T	U			2	4	x		<u>2</u> ₁	<u>3</u>			7	2	+	4	8	0	<ul style="list-style-type: none"> • Now begin on a new line. • Put down the zero to indicate we are moving one column to the left. • Now multiply by 2. • 2 4s are 8. 2 2s are 4. 				
	H	T	U																								
		2	4																								
x		<u>2</u> ₁	<u>3</u>																								
		7	2																								
+	4	8	0																								
3	<ul style="list-style-type: none"> • We add our answers. 	<table style="margin-left: auto; margin-right: auto;"> <tr><td></td><td>H</td><td>T</td><td>U</td></tr> <tr><td></td><td></td><td>2</td><td>4</td></tr> <tr><td>x</td><td></td><td><u>2</u>₁</td><td><u>3</u></td></tr> <tr><td></td><td></td><td>7</td><td>2</td></tr> <tr><td>+</td><td><u>4</u>₁</td><td><u>8</u></td><td><u>0</u></td></tr> <tr><td></td><td>5</td><td>5</td><td>2</td></tr> </table>		H	T	U			2	4	x		<u>2</u> ₁	<u>3</u>			7	2	+	<u>4</u> ₁	<u>8</u>	<u>0</u>		5	5	2	<ul style="list-style-type: none"> • 2 plus 0 equals 2. • 7 plus 8 equals 15, put down the 5 and carry the 1(ten). • Add 1 to 4 equals 5. • Answer is 552
	H	T	U																								
		2	4																								
x		<u>2</u> ₁	<u>3</u>																								
		7	2																								
+	<u>4</u> ₁	<u>8</u>	<u>0</u>																								
	5	5	2																								

For Illustration Only

	H	T	U	
		2	4	
x		<u>2</u> ₁	<u>3</u>	
		7	2	24 x 3
+	<u>4</u> ₁	<u>8</u>	<u>0</u>	24 x 20
	5	5	2	24 x 23