Multiplication 2

From: A Maths Dictionary for Kids by Jenny Eather at www.amathsdictionaryforkids.com

10 \times 20 = 200

multiplier    multiplicand    product

Numbers may be multiplied in any order to get the product.
Multiplication Key Words: times, multiplied by, product.

To multiply larger numbers a vertical algorithm can be used.
Numbers are written underneath each other according their place value.
The numbers are multiplied vertically, starting with the ones column
then moving left column by column.

Multiplying vertically without trading (carrying)

132 \times 3 = \begin{array}{c}
1 \\
3 \\
\times
\end{array} \begin{array}{c}
3 \\
9 \\
6 \\
\end{array}

4234 \times 2 = \begin{array}{c}
4 \\
2 \\
3 \\
\times
\end{array} \begin{array}{c}
2 \\
4 \\
6 \\
8 \\
\end{array}

Multiplying vertically with trading (carrying)

153 \times 6 = \begin{array}{c}
1 \\
5 \\
\times
\end{array} \begin{array}{c}
3 \\
1 \\
8 \\
\end{array}

1386 \times 7 = \begin{array}{c}
1 \\
3 \\
\times
\end{array} \begin{array}{c}
2 \\
6 \\
4 \\
\end{array} \begin{array}{c}
7 \\
0 \\
2 \\
\end{array}

When a column is more than ten, the tens go into the next column left
and are added to the answer; the ones stay in their own column.

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