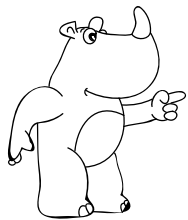


Multiplication with Regrouping

Multiplication with regrouping is the easiest way to multiply by large numbers.
Follow the steps below to learn how.



- First, multiply the numbers in the ones place.
- Write your result in the ones place and carry any number in the tens place forward.
- Next, multiply the number in the tens place by the bottom number in the ones place.
- Add the extra number you carried over to your result and write this number in the tens place.

Answer Key

Example:

Multiply the ones place.	$\begin{array}{r} 17 \\ \times 3 \\ \hline 1 \end{array}$	Carry the 2 to the tens place.	$\begin{array}{r} 2 \\ 17 \\ \times 3 \\ \hline 1 \end{array}$	Multiply the tens place by the bottom ones place.	$\begin{array}{r} 2 \\ 17 \\ \times 3 \\ \hline 1 \end{array}$	Add the extra 2 and write your result.	$\begin{array}{r} 2 \\ 17 \\ \times 3 \\ \hline 51 \end{array}$
$7 \times 3 = 21$				$1 \times 3 = 3$		$3 + 2 = 5$	

For each problem below, follow the steps used in the example to find your solution.
Be sure to show all of your work.

1) $\begin{array}{r} 24 \\ \times 3 \\ \hline 72 \end{array}$	5) $\begin{array}{r} 13 \\ \times 4 \\ \hline 52 \end{array}$	9) $\begin{array}{r} 12 \\ \times 5 \\ \hline 60 \end{array}$	13) $\begin{array}{r} 19 \\ \times 3 \\ \hline 57 \end{array}$	17) $\begin{array}{r} 14 \\ \times 4 \\ \hline 56 \end{array}$	21) $\begin{array}{r} 15 \\ \times 6 \\ \hline 90 \end{array}$
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2) $\begin{array}{r} 16 \\ \times 4 \\ \hline 64 \end{array}$	6) $\begin{array}{r} 38 \\ \times 2 \\ \hline 76 \end{array}$	10) $\begin{array}{r} 29 \\ \times 3 \\ \hline 87 \end{array}$	14) $\begin{array}{r} 24 \\ \times 4 \\ \hline 96 \end{array}$	18) $\begin{array}{r} 28 \\ \times 4 \\ \hline 112 \end{array}$	22) $\begin{array}{r} 17 \\ \times 8 \\ \hline 136 \end{array}$
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3) $\begin{array}{r} 16 \\ \times 2 \\ \hline 32 \end{array}$	7) $\begin{array}{r} 35 \\ \times 2 \\ \hline 70 \end{array}$	11) $\begin{array}{r} 18 \\ \times 4 \\ \hline 72 \end{array}$	15) $\begin{array}{r} 27 \\ \times 2 \\ \hline 54 \end{array}$	19) $\begin{array}{r} 13 \\ \times 7 \\ \hline 91 \end{array}$	23) $\begin{array}{r} 12 \\ \times 7 \\ \hline 84 \end{array}$
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4) $\begin{array}{r} 25 \\ \times 2 \\ \hline 50 \end{array}$	8) $\begin{array}{r} 17 \\ \times 4 \\ \hline 68 \end{array}$	12) $\begin{array}{r} 36 \\ \times 2 \\ \hline 72 \end{array}$	16) $\begin{array}{r} 18 \\ \times 3 \\ \hline 54 \end{array}$	20) $\begin{array}{r} 24 \\ \times 5 \\ \hline 120 \end{array}$	24) $\begin{array}{r} 72 \\ \times 9 \\ \hline 648 \end{array}$
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