

# Multiplying Greater Numbers

Find  $128 \times 23$ .

Estimate:  $100 \times 20 = 2,000$

	<b>Step 1</b>	<b>Step 2</b>	<b>Step 3</b>
	Multiply by the ones. Regroup as needed.	Multiply by the tens. Regroup as needed.	Add the products.
$\begin{array}{r} 128 \\ \times 23 \\ \hline 384 \\ + 2,560 \\ \hline 2,944 \end{array}$	$\begin{array}{r} 2 \\ 128 \\ \times 3 \\ \hline 384 \end{array}$	$\begin{array}{r} 1 \\ 128 \\ \times 20 \\ \hline 2,560 \end{array}$	<div style="border-left: 1px solid black; border-right: 1px solid black; height: 100px; margin: 0 auto;"></div>

Because the answer is close to the estimate, the answer is reasonable.

Find the product. Estimate to check if your answer is reasonable.

Problem	Multiply by the Ones	Multiply by the Tens	Add the Products
<p><b>1.</b></p> $\begin{array}{r} 282 \\ \times 19 \\ \hline 2,538 \\ + \phantom{2,538} \\ \hline \end{array}$	$\begin{array}{r} 71 \\ 282 \\ \times 9 \\ \hline 2,538 \end{array}$	$\begin{array}{r} 282 \\ \times 10 \\ \hline \end{array}$	<div style="border-left: 1px solid black; border-right: 1px solid black; height: 100px; margin: 0 auto;"></div>
<p><b>2.</b></p> $\begin{array}{r} 538 \\ \times 46 \\ \hline \end{array}$			

**3.** Is 2,750 a reasonable answer for  $917 \times 33$ ? Explain.

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