

**ANSWERS****Three-Digit Addition: Part 1**

Add multi-digit numbers using different strategies.

To solve problems using **expanded notation addition**, change all the numbers to expanded notation, line them up horizontally, add each column, and then add the sums.

To solve problems using **standard algorithm addition**, stack and line up the addends based on their place value, then add up one place value at a time working from right to left. Don't forget to carryover to regroup the values.

**Equation**

$$376 + 475$$

**Expanded Notation**

$$\begin{array}{r} 300 + 70 + 6 \\ 400 + 70 + 5 \\ \hline 700 + 140 + 11 \\ \hline 851 \end{array}$$

**Standard Algorithm**

$$\begin{array}{r} & 1 & 1 \\ & 3 & 7 & 6 \\ + & 4 & 7 & 5 \\ \hline & 8 & 5 & 1 \end{array}$$

**Directions:** Solve the equations using both Expanded Notation and Standard Algorithm addition.

<p><b><u>Equation</u></b></p> <p>1. <math>235 + 682</math></p>	<p><b><u>Expanded Notation</u></b></p> $\begin{array}{r} 200 + 30 + 5 \\ 600 + 80 + 2 \\ \hline 800 + 110 + 7 \\ \hline 917 \end{array}$ <p><b>Answer: 917</b></p>	<p><b><u>Standard Algorithm</u></b></p> $\begin{array}{r} & 1 \\ & 2 & 3 & 5 \\ + & 6 & 8 & 2 \\ \hline & 9 & 1 & 7 \end{array}$ <p><b>Answer: 917</b></p>
<p><b><u>Equation</u></b></p> <p>2. <math>607 + 195</math></p>	<p><b><u>Expanded Notation</u></b></p> $\begin{array}{r} 600 + 0 + 7 \\ 100 + 90 + 5 \\ \hline 700 + 90 + 12 \\ \hline 802 \end{array}$ <p><b>Answer: 802</b></p>	<p><b><u>Standard Algorithm</u></b></p> $\begin{array}{r} & 1 & 1 \\ & 6 & 0 & 7 \\ + & 1 & 9 & 5 \\ \hline & 8 & 0 & 2 \end{array}$ <p><b>Answer: 802</b></p>
<p><b><u>Equation</u></b></p> <p>3. <math>376 + 475</math></p>	<p><b><u>Expanded Notation</u></b></p> $\begin{array}{r} 300 + 70 + 6 \\ 400 + 70 + 5 \\ \hline 700 + 140 + 11 \\ \hline 851 \end{array}$ <p><b>Answer: 851</b></p>	<p><b><u>Standard Algorithm</u></b></p> $\begin{array}{r} & 1 & 1 \\ & 3 & 7 & 6 \\ + & 4 & 7 & 5 \\ \hline & 8 & 5 & 1 \end{array}$ <p><b>Answer: 851</b></p>

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**Directions:** Solve the equations using both Expanded Notation and Standard Algorithm addition.

<u>Equation</u>	<u>Expanded Notation</u>	<u>Standard Algorithm</u>
4. $654 + 271$	$\begin{array}{r} 600 + 50 + 4 \\ 200 + 70 + 1 \\ \hline 800 + 120 + 5 \\ + \quad 5 \\ \hline 925 \end{array}$ <p style="text-align: center;"><b>Answer: 925</b></p>	$\begin{array}{r} \phantom{1} \\ 654 \\ + 271 \\ \hline 925 \end{array}$ <p style="text-align: center;"><b>Answer: 925</b></p>
5. $223 + 189$	$\begin{array}{r} 200 + 20 + 3 \\ 100 + 80 + 9 \\ \hline 300 + 100 + 12 \\ + \quad 12 \\ \hline 412 \end{array}$ <p style="text-align: center;"><b>Answer: 412</b></p>	$\begin{array}{r} \phantom{1} \phantom{1} \\ 223 \\ + 189 \\ \hline 412 \end{array}$ <p style="text-align: center;"><b>Answer: 412</b></p>
6. $387 + 225$	$\begin{array}{r} 300 + 80 + 7 \\ 200 + 20 + 5 \\ \hline 500 + 100 + 12 \\ + \quad 12 \\ \hline 612 \end{array}$ <p style="text-align: center;"><b>Answer: 612</b></p>	$\begin{array}{r} \phantom{1} \phantom{1} \\ 387 \\ + 225 \\ \hline 612 \end{array}$ <p style="text-align: center;"><b>Answer: 612</b></p>
7. $471 + 129$	$\begin{array}{r} 400 + 70 + 1 \\ 100 + 20 + 9 \\ \hline 500 + 90 + 10 \\ + \quad 10 \\ \hline 600 \end{array}$ <p style="text-align: center;"><b>Answer: 600</b></p>	$\begin{array}{r} \phantom{1} \phantom{1} \\ 471 \\ + 129 \\ \hline 600 \end{array}$ <p style="text-align: center;"><b>Answer: 600</b></p>