

ADDITION WORKBOOK 9 (SINGLE AND TRIPLE DIGITS)



Sometimes you will need to add two or more numbers and you will need to "carry" a value. Carrying is needed when a temporary sum is greater than nine. Let's watch.

<p>You do not need to carry a value in this example.</p> $\begin{array}{r} 5 \\ + 4 \\ \hline 9 \end{array}$	<p>Even though the values are large, there is no carrying in this example.</p> $\begin{array}{r} 4,522 \\ + 7 \\ \hline 4,529 \end{array}$	<p>Why is there no carrying? The column total is less than 10.</p> <p>These two numbers only add up to 9.</p> $\begin{array}{r} 4,522 \\ + 7 \\ \hline 4,529 \end{array}$			
<p>There is no carrying in this example either.</p> $\begin{array}{r} 7 \\ + 8 \\ \hline 15 \end{array}$	<p>But what happens when those digits are at the end of a larger number?</p> $\begin{array}{r} 127 \\ + 8 \\ \hline ?? \end{array}$	<p>When two digits add up to a value larger than nine, it's time to carry.</p> <p>The sum of these two numbers is 15.</p> <p>You will write down the "5" and carry the "1" into the next column.</p> $\begin{array}{r} 127 \\ + 8 \\ \hline 135 \end{array}$			
<p>Let's watch the whole process in action...</p>					
$\begin{array}{r} 113 \\ + 8 \\ \hline ?? \end{array}$ <p>Start with two values.</p>	$\begin{array}{r} 113 \\ + 8 \\ \hline \end{array}$ <p>Begin adding columns.</p>	$\begin{array}{r} 113 \\ + 8 \\ \hline \end{array}$ <p>Discover the sum of one column is greater than 9.</p>	$\begin{array}{r} 113 \\ + 8 \\ \hline 1 \end{array}$ <p>Split the column total and carry the tens value into the next column.</p>	$\begin{array}{r} 113 \\ + 8 \\ \hline 1 \end{array}$ <p>Add the digits in the next column and include the carried digit.</p>	$\begin{array}{r} 113 \\ + 8 \\ \hline 121 \end{array}$

DIRECTIONS: Watch how we add two values with carrying.

First we'll do it. We start by adding the numbers in the right column (ones), carry, and add the left column (tens).

$$\begin{array}{r}
 25 \\
 + 6 \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 25 \\
 + 6 \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 \cancel{25} \\
 + \cancel{6} \\
 \hline
 \end{array}
 \begin{array}{l}
 11 \\
 \end{array}
 \rightarrow
 \begin{array}{r}
 25 \\
 + 6 \\
 \hline
 1
 \end{array}
 \begin{array}{l}
 11 \\
 \end{array}
 \rightarrow
 \begin{array}{r}
 1 \\
 25 \\
 + 6 \\
 \hline
 31
 \end{array}$$

You can finish this one.

$$\begin{array}{r}
 46 \\
 + 6 \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 46 \\
 + 6 \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 \cancel{46} \\
 + \cancel{6} \\
 \hline
 \end{array}
 \begin{array}{l}
 12 \\
 \end{array}
 \rightarrow
 \begin{array}{r}
 46 \\
 + 6 \\
 \hline
 2
 \end{array}
 \begin{array}{l}
 12 \\
 \end{array}
 \rightarrow
 \begin{array}{r}
 1 \\
 46 \\
 + 6 \\
 \hline
 \square
 \end{array}$$

Try the last two steps.

$$\begin{array}{r}
 58 \\
 + 8 \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 58 \\
 + 8 \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 \cancel{58} \\
 + \cancel{8} \\
 \hline
 \end{array}
 \begin{array}{l}
 16 \\
 \end{array}
 \rightarrow
 \begin{array}{r}
 \square \\
 58 \\
 + 8 \\
 \hline
 \square
 \end{array}
 \begin{array}{l}
 16 \\
 \end{array}
 \rightarrow
 \begin{array}{r}
 1 \\
 58 \\
 + 8 \\
 \hline
 \square
 \end{array}$$

This one is all yours.

$$\begin{array}{r}
 69 \\
 + 9 \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 69 \\
 + 9 \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 \cancel{69} \\
 + \cancel{9} \\
 \hline
 \end{array}
 \begin{array}{l}
 \square \\
 \end{array}
 \rightarrow
 \begin{array}{r}
 \square \\
 69 \\
 + 9 \\
 \hline
 \square
 \end{array}
 \begin{array}{l}
 \square \\
 \end{array}
 \rightarrow
 \begin{array}{r}
 1 \\
 69 \\
 + 9 \\
 \hline
 \square
 \end{array}$$

DIRECTIONS: Try some examples with three digit numbers.

First we'll do it. We start by adding the numbers in the right column (ones), carry, and add the left column (tens).

$$\begin{array}{r}
 167 \\
 + 9 \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 167 \\
 + 9 \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 167 \\
 + \cancel{9} \quad 16 \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 167 \\
 + \overset{1}{\underset{6}{\cancel{9}}} \quad 16 \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 \overset{1}{167} \\
 + 9 \\
 \hline
 176
 \end{array}$$

You can finish this one.

$$\begin{array}{r}
 235 \\
 + 5 \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 235 \\
 + 5 \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 235 \\
 + \cancel{5} \quad 10 \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 235 \\
 + \overset{1}{\underset{0}{\cancel{5}}} \quad 10 \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 \overset{1}{235} \\
 + \quad \quad \quad \\
 \hline
 \square
 \end{array}$$

Try the last two steps.

$$\begin{array}{r}
 376 \\
 + 8 \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 376 \\
 + 8 \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 376 \\
 + \cancel{8} \quad 14 \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 \square \\
 \overset{\square}{376} \\
 + \overset{\square}{\underset{8}{\cancel{8}}} \quad 14 \\
 \hline
 \square
 \end{array}
 \rightarrow
 \begin{array}{r}
 \overset{\square}{376} \\
 + \quad \quad \quad \\
 \hline
 \square
 \end{array}$$

This one is all yours.

$$\begin{array}{r}
 438 \\
 + 9 \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 438 \\
 + 9 \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 438 \\
 + \cancel{9} \quad \square \\
 \hline
 \end{array}
 \rightarrow
 \begin{array}{r}
 \square \\
 \overset{\square}{438} \\
 + \overset{\square}{\underset{9}{\cancel{9}}} \quad \square \\
 \hline
 \square
 \end{array}
 \rightarrow
 \begin{array}{r}
 \overset{\square}{438} \\
 + \quad \quad \quad \\
 \hline
 \square
 \end{array}$$

DIRECTIONS: We have a quick review of single digit addition. Fill in the blank spaces with the correct value.

$\begin{array}{r} 8 \\ +7 \\ \hline 15 \end{array}$	$\begin{array}{r} 6 \\ +2 \\ \hline \boxed{8} \end{array}$	$\begin{array}{r} 9 \\ +6 \\ \hline \boxed{} \end{array}$	$\begin{array}{r} 5 \\ +7 \\ \hline \boxed{} \end{array}$	$\begin{array}{r} 6 \\ +8 \\ \hline \boxed{} \end{array}$
$\begin{array}{r} 7 \\ + \boxed{} \\ \hline 14 \end{array}$	$\begin{array}{r} 4 \\ + \boxed{} \\ \hline 4 \end{array}$	$\begin{array}{r} 5 \\ + \boxed{} \\ \hline 11 \end{array}$	$\begin{array}{r} 1 \\ + \boxed{} \\ \hline 10 \end{array}$	$\begin{array}{r} 3 \\ + \boxed{} \\ \hline 5 \end{array}$
$\begin{array}{r} \boxed{} \\ +6 \\ \hline 13 \end{array}$	$\begin{array}{r} \boxed{} \\ +5 \\ \hline 6 \end{array}$	$\begin{array}{r} \boxed{} \\ +7 \\ \hline 10 \end{array}$	$\begin{array}{r} \boxed{} \\ +8 \\ \hline 16 \end{array}$	$\begin{array}{r} \boxed{} \\ +9 \\ \hline 18 \end{array}$

DIRECTIONS: We continue our review with single and double digit numbers. Fill in the blank spaces with the correct value.

$\begin{array}{r} 12 \\ +3 \\ \hline 15 \end{array}$	$\begin{array}{r} 22 \\ +6 \\ \hline 29 \end{array}$	$\begin{array}{r} 35 \\ +3 \\ \hline \square \end{array}$	$\begin{array}{r} 48 \\ +1 \\ \hline \square \end{array}$	$\begin{array}{r} 53 \\ +3 \\ \hline \square \end{array}$
$\begin{array}{r} 60 \\ + \square \\ \hline 69 \end{array}$	$\begin{array}{r} 74 \\ + \square \\ \hline 78 \end{array}$	$\begin{array}{r} 89 \\ + \square \\ \hline 89 \end{array}$	$\begin{array}{r} 91 \\ + \square \\ \hline 92 \end{array}$	$\begin{array}{r} 18 \\ + \square \\ \hline 19 \end{array}$
$\begin{array}{r} \square \\ +6 \\ \hline 29 \end{array}$	$\begin{array}{r} \square \\ +5 \\ \hline 36 \end{array}$	$\begin{array}{r} \square \\ +4 \\ \hline 44 \end{array}$	$\begin{array}{r} \square \\ +3 \\ \hline 59 \end{array}$	$\begin{array}{r} \square \\ +2 \\ \hline 68 \end{array}$

DIRECTIONS: The last of simple addition review. Fill in the blank spaces with the correct value.

$\begin{array}{r} 122 \\ + 4 \\ \hline 126 \end{array}$	$\begin{array}{r} 257 \\ + 2 \\ \hline \boxed{259} \end{array}$	$\begin{array}{r} 388 \\ + 1 \\ \hline \boxed{} \end{array}$	$\begin{array}{r} 402 \\ + 7 \\ \hline \boxed{} \end{array}$	$\begin{array}{r} 551 \\ + 6 \\ \hline \boxed{} \end{array}$
$\begin{array}{r} 625 \\ + 4 \\ \hline \boxed{} \end{array}$	$\begin{array}{r} 717 \\ + 1 \\ \hline \boxed{} \end{array}$	$\begin{array}{r} 834 \\ + 5 \\ \hline \boxed{} \end{array}$	$\begin{array}{r} 971 \\ + 5 \\ \hline \boxed{} \end{array}$	$\begin{array}{r} 100 \\ + 9 \\ \hline \boxed{} \end{array}$
$\begin{array}{r} 222 \\ + 2 \\ \hline \boxed{} \end{array}$	$\begin{array}{r} 333 \\ + 3 \\ \hline \boxed{} \end{array}$	$\begin{array}{r} 444 \\ + 4 \\ \hline \boxed{} \end{array}$	$\begin{array}{r} 555 \\ + 1 \\ \hline \boxed{} \end{array}$	$\begin{array}{r} 686 \\ + 3 \\ \hline \boxed{} \end{array}$

DIRECTIONS: Try some carrying when you have double and single digit addends. Fill in the spaces with the correct value.

$\begin{array}{r} 26 \\ + 6 \\ \hline 32 \end{array}$	$\begin{array}{r} 37 \\ + 3 \\ \hline \square \end{array}$	$\begin{array}{r} 42 \\ + 8 \\ \hline \square \end{array}$	$\begin{array}{r} 58 \\ + 8 \\ \hline \square \end{array}$	$\begin{array}{r} 63 \\ + 9 \\ \hline \square \end{array}$
$\begin{array}{r} 75 \\ + 6 \\ \hline \square \end{array}$	$\begin{array}{r} 82 \\ + 9 \\ \hline \square \end{array}$	$\begin{array}{r} 91 \\ + 6 \\ \hline \square \end{array}$	$\begin{array}{r} 15 \\ + 8 \\ \hline \square \end{array}$	$\begin{array}{r} 23 \\ + 8 \\ \hline \square \end{array}$
$\begin{array}{r} 37 \\ + 7 \\ \hline \square \end{array}$	$\begin{array}{r} 48 \\ + 7 \\ \hline \square \end{array}$	$\begin{array}{r} 59 \\ + 4 \\ \hline \square \end{array}$	$\begin{array}{r} 69 \\ + 2 \\ \hline \square \end{array}$	$\begin{array}{r} 74 \\ + 6 \\ \hline \square \end{array}$

DIRECTIONS: Let's carry values when you have triple and single digit addends. Fill in the spaces with the correct value.

$\begin{array}{r} 106 \\ + 5 \\ \hline 111 \end{array}$	$\begin{array}{r} 222 \\ + 8 \\ \hline \square \end{array}$	$\begin{array}{r} 377 \\ + 3 \\ \hline \square \end{array}$	$\begin{array}{r} 456 \\ + 6 \\ \hline \square \end{array}$	$\begin{array}{r} 149 \\ + 7 \\ \hline \square \end{array}$
$\begin{array}{r} 291 \\ + 8 \\ \hline \square \end{array}$	$\begin{array}{r} 364 \\ + 7 \\ \hline \square \end{array}$	$\begin{array}{r} 485 \\ + 5 \\ \hline \square \end{array}$	$\begin{array}{r} 133 \\ + 8 \\ \hline \square \end{array}$	$\begin{array}{r} 247 \\ + 8 \\ \hline \square \end{array}$
$\begin{array}{r} 319 \\ + 9 \\ \hline \square \end{array}$	$\begin{array}{r} 481 \\ + 6 \\ \hline \square \end{array}$	$\begin{array}{r} 187 \\ + 4 \\ \hline \square \end{array}$	$\begin{array}{r} 219 \\ + 5 \\ \hline \square \end{array}$	$\begin{array}{r} 377 \\ + 7 \\ \hline \square \end{array}$

DIRECTIONS: Let's carry values when you have triple and single digit addends. Fill in the spaces with the correct value.

$\begin{array}{r} 582 \\ + 8 \\ \hline 590 \end{array}$	$\begin{array}{r} 673 \\ + 9 \\ \hline \square \end{array}$	$\begin{array}{r} 787 \\ + 7 \\ \hline \square \end{array}$	$\begin{array}{r} 859 \\ + 6 \\ \hline \square \end{array}$	$\begin{array}{r} 925 \\ + 5 \\ \hline \square \end{array}$
$\begin{array}{r} 128 \\ + 8 \\ \hline \square \end{array}$	$\begin{array}{r} 267 \\ + 7 \\ \hline \square \end{array}$	$\begin{array}{r} 339 \\ + 9 \\ \hline \square \end{array}$	$\begin{array}{r} 416 \\ + 6 \\ \hline \square \end{array}$	$\begin{array}{r} 575 \\ + 9 \\ \hline \square \end{array}$
$\begin{array}{r} 632 \\ + 9 \\ \hline \square \end{array}$	$\begin{array}{r} 791 \\ + 8 \\ \hline \square \end{array}$	$\begin{array}{r} 833 \\ + 8 \\ \hline \square \end{array}$	$\begin{array}{r} 964 \\ + 8 \\ \hline \square \end{array}$	$\begin{array}{r} 844 \\ + 6 \\ \hline \square \end{array}$

As you move forward with addition you will find equations that ask you to carry more than one time. Let's look at one example and then you can try a few.

Let's watch the carrying steps in action...

Start with two values.

Begin adding the first column. Discover the sum of the ones column is greater than 9.

Split the column total and carry the tens value into the next column.

Add the digits in the next column and include the carried digit.

When you discover the total of the tens column is greater than 9, you will need to split the answer again.

To finish, you would need to add the values in the hundreds column. You have the original number and the carried value.

$$\begin{array}{r} 199 \\ + 6 \\ \hline 205 \end{array}$$

$$\begin{array}{r} 295 \\ + 6 \\ \hline 301 \end{array}$$

$$\begin{array}{r} 396 \\ + 7 \\ \hline \square 03 \end{array}$$

$$\begin{array}{r} 492 \\ + 8 \\ \hline \square 00 \end{array}$$

$$\begin{array}{r} 593 \\ + 9 \\ \hline \square 2 \end{array}$$

$$\begin{array}{r} 698 \\ + 7 \\ \hline \square 5 \end{array}$$

$$\begin{array}{r} 794 \\ + 6 \\ \hline \square \end{array}$$

$$\begin{array}{r} 897 \\ + 4 \\ \hline \square \end{array}$$

$$\begin{array}{r} 191 \\ + 9 \\ \hline \square \end{array}$$

$$\begin{array}{r} 999 \\ + 1 \\ \hline \square \end{array}$$

DIRECTIONS: Determine if carrying is needed and then figure out the sum to the equation.

<u>EQUATION</u>	<u>CARRY?</u>	<u>SUM</u>
$173 + 8$	<input checked="" type="radio"/> YES <input type="radio"/> NO	181
$265 + 4$	YES <input checked="" type="radio"/> NO	
$359 + 1$	YES <input type="radio"/> NO	
$432 + 6$	YES <input type="radio"/> NO	
$492 + 8$	YES <input type="radio"/> NO	
$531 + 7$	YES <input type="radio"/> NO	
$680 + 9$	YES <input type="radio"/> NO	
$777 + 5$	YES <input type="radio"/> NO	
$829 + 3$	YES <input type="radio"/> NO	
$955 + 2$	YES <input type="radio"/> NO	
$994 + 7$	YES <input type="radio"/> NO	

DIRECTIONS: Let's review some sideways addition with carrying involved.

$$15 + 5 = 20$$

$$27 + 4 = \boxed{31}$$

$$39 + 4 = \boxed{}$$

$$47 + 7 = \boxed{}$$

$$56 + 6 = \boxed{}$$

$$68 + 7 = \boxed{}$$

$$75 + 9 = \boxed{}$$

$$84 + 8 = \boxed{}$$

$$91 + 7 = \boxed{}$$

$$12 + 9 = \boxed{}$$

$$23 + 3 = \boxed{}$$

$$38 + 5 = \boxed{}$$

$$46 + 4 = \boxed{}$$

$$59 + 2 = \boxed{}$$

$$63 + 8 = \boxed{}$$

$$74 + 9 = \boxed{}$$

$$88 + 8 = \boxed{}$$

$$92 + 7 = \boxed{}$$

DIRECTIONS: Now for some triple and single digit addition with carrying... Sideways.

$$165 + 5 = 170$$

$$382 + 9 = \square$$

$$113 + 6 = \square$$

$$333 + 9 = \square$$

$$109 + 2 = \square$$

$$370 + 1 = \square$$

$$183 + 3 = \square$$

$$367 + 5 = \square$$

$$188 + 9 = \square$$

$$248 + 4 = \boxed{252}$$

$$463 + 8 = \square$$

$$279 + 4 = \square$$

$$444 + 7 = \square$$

$$288 + 2 = \square$$

$$455 + 8 = \square$$

$$279 + 6 = \square$$

$$477 + 8 = \square$$

$$204 + 6 = \square$$

DIRECTIONS: A little more triple and single digit addition with carrying... Sideways.

$$568 + 5 = 573$$

$$688 + 8 = \boxed{696}$$

$$746 + 9 = \boxed{}$$

$$722 + 7 = \boxed{}$$

$$835 + 6 = \boxed{}$$

$$973 + 8 = \boxed{}$$

$$518 + 2 = \boxed{}$$

$$627 + 6 = \boxed{}$$

$$751 + 9 = \boxed{}$$

$$895 + 4 = \boxed{}$$

$$960 + 6 = \boxed{}$$

$$538 + 7 = \boxed{}$$

$$624 + 8 = \boxed{}$$

$$749 + 9 = \boxed{}$$

$$808 + 5 = \boxed{}$$

$$947 + 4 = \boxed{}$$

$$509 + 1 = \boxed{}$$

$$997 + 4 = \boxed{}$$

DIRECTIONS: Circle the correct sum for the equation.

$146 + 7$ 143 <input checked="" type="radio"/> 153 163 147	$259 + 6$ 165 175 265 375	$388 + 3$ 491 391 401 389
$456 + 5$ 461 561 459 556	$522 + 7$ 539 527 629 529	$617 + 8$ 718 625 725 678
$735 + 5$ 745 755 740 840	$804 + 8$ 812 912 808 408	$939 + 2$ 949 941 932 929
$187 + 7$ 197 177 194 184	$266 + 6$ 269 372 362 272	$399 + 5$ 394 404 494 395

DIRECTIONS: Circle the equation which has the correct sum.

196	$186 + 6$ $187 + 9$ $196 + 6$ $166 + 9$	235	$134 + 9$ $235 + 5$ $229 + 6$ $329 + 6$	333	$328 + 5$ $338 + 5$ $290 + 3$ $313 + 2$
485	$485 + 5$ $376 + 9$ $405 + 8$ $478 + 7$	522	$502 + 2$ $528 + 2$ $518 + 4$ $418 + 4$	671	$669 + 2$ $668 + 2$ $667 + 2$ $666 + 3$
777	$727 + 5$ $770 + 7$ $767 + 9$ $707 + 7$	888	$679 + 9$ $779 + 9$ $879 + 9$ $880 + 9$	990	$99 + 9$ $989 + 2$ $988 + 3$ $984 + 6$
198	$199 + 2$ $109 + 8$ $195 + 4$ $189 + 7$	302	$299 + 3$ $300 + 3$ $290 + 2$ $290 + 8$	406	$396 + 6$ $397 + 9$ $390 + 6$ $399 + 9$

DIRECTIONS: Connect each equation to its correct sum.

$225 + 8$	412	$163 + 8$	181
$342 + 8$	823	$173 + 8$	171
$816 + 7$	233	$188 + 3$	191
$409 + 3$	350	$133 + 3$	136

$156 + 9$	264	$305 + 5$	310
$256 + 8$	363	$316 + 6$	334
$356 + 7$	462	$327 + 7$	346
$456 + 6$	165	$338 + 8$	322

$428 + 7$	450	$563 + 8$	587
$439 + 4$	435	$571 + 7$	571
$441 + 9$	443	$578 + 9$	578
$456 + 4$	460	$587 + 4$	591

$618 + 7$	625	$769 + 5$	796
$626 + 9$	635	$779 + 6$	807
$635 + 3$	638	$789 + 7$	774
$639 + 8$	647	$799 + 8$	785