

ADDITION WORKBOOK 7 (SINGLE AND DOUBLE 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> $\begin{array}{r} 6 \\ + 3 \\ \hline 9 \end{array}$	<p>Even though the values are large, there is no carrying in this example.</p> $\begin{array}{r} 5,862 \\ + 6 \\ \hline 5,868 \end{array}$	<p>Why is there no carrying? The column total is less than 10.</p> <p>These two numbers only add up to 8.</p> $\begin{array}{r} 5,862 \\ + 6 \\ \hline 5,868 \end{array}$			
<p>There is no carrying in this example either.</p> $\begin{array}{r} 8 \\ + 6 \\ \hline 14 \end{array}$	<p>But what happens when those digits are at the end of a larger number?</p> $\begin{array}{r} 78 \\ + 6 \\ \hline ?? \end{array}$	<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 14.</p> <p>You will write down the "4" and carry the "1" into the next column.</p> $\begin{array}{r} 78 \\ + 6 \\ \hline 84 \end{array}$			
<p>Let's watch the whole process in action...</p>					
$\begin{array}{r} 67 \\ + 4 \\ \hline ?? \end{array}$ <p>Start with two values.</p>	$\begin{array}{r} 67 \\ + 4 \\ \hline \end{array}$ <p>Begin adding columns.</p>	$\begin{array}{r} 67 \\ + 4 \\ \hline \end{array} \quad 11$ <p>Discover the sum of one column is greater than 9.</p>	$\begin{array}{r} 67 \\ + 4 \\ \hline 1 \end{array}$ <p>Split the column total and carry the tens value into the next column.</p>	$\begin{array}{r} 67 \\ + 4 \\ \hline 1 \end{array}$ <p>Add the digits in the next column and include the carried digit.</p>	$\begin{array}{r} 67 \\ + 4 \\ \hline 71 \end{array}$

DIRECTIONS: Watch how we 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).

$$\begin{array}{r} 16 \\ + 9 \\ \hline \end{array} \rightarrow \begin{array}{r} 16 \\ + \textcircled{9} \\ \hline \end{array} \rightarrow \begin{array}{r} \cancel{16} \ 15 \\ + \cancel{9} \\ \hline \end{array} \rightarrow \begin{array}{r} \overset{1}{\cancel{16}} \ 15 \\ + \textcircled{9} \\ \hline 5 \end{array} \rightarrow \begin{array}{r} \overset{1}{\textcircled{1}} \ 16 \\ + 9 \\ \hline 25 \end{array}$$

You can finish this one.

$$\begin{array}{r} 24 \\ + 7 \\ \hline \end{array} \rightarrow \begin{array}{r} 24 \\ + \textcircled{7} \\ \hline \end{array} \rightarrow \begin{array}{r} \cancel{24} \ 11 \\ + \cancel{7} \\ \hline \end{array} \rightarrow \begin{array}{r} \overset{1}{\cancel{24}} \ 11 \\ + \textcircled{7} \\ \hline 1 \end{array} \rightarrow \begin{array}{r} \overset{1}{\textcircled{2}} \ 24 \\ + 7 \\ \hline \square \end{array}$$

Try the last two steps.

$$\begin{array}{r} 35 \\ + 5 \\ \hline \end{array} \rightarrow \begin{array}{r} 35 \\ + \textcircled{5} \\ \hline \end{array} \rightarrow \begin{array}{r} \cancel{35} \ 10 \\ + \cancel{5} \\ \hline \end{array} \rightarrow \begin{array}{r} \square \ 35 \ 10 \\ + \textcircled{5} \\ \hline \square \end{array} \rightarrow \begin{array}{r} \overset{\square}{\textcircled{3}} \ 35 \\ + 5 \\ \hline \square \end{array}$$

This one is all yours.

$$\begin{array}{r} 44 \\ + 8 \\ \hline \end{array} \rightarrow \begin{array}{r} 44 \\ + \textcircled{8} \\ \hline \end{array} \rightarrow \begin{array}{r} \cancel{44} \ \square \\ + \cancel{8} \\ \hline \end{array} \rightarrow \begin{array}{r} \square \ 44 \ \square \\ + \textcircled{8} \\ \hline \square \end{array} \rightarrow \begin{array}{r} \overset{\square}{\textcircled{4}} \ 44 \\ + 8 \\ \hline \square \end{array}$$

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

$\begin{array}{r} 5 \\ +5 \\ \hline 10 \end{array}$	$\begin{array}{r} 3 \\ +9 \\ \hline \boxed{12} \end{array}$	$\begin{array}{r} 4 \\ +7 \\ \hline \boxed{} \end{array}$	$\begin{array}{r} 5 \\ +9 \\ \hline \boxed{} \end{array}$	$\begin{array}{r} 2 \\ +2 \\ \hline \boxed{} \end{array}$
$\begin{array}{r} 6 \\ + \boxed{} \\ \hline 15 \end{array}$	$\begin{array}{r} 4 \\ + \boxed{} \\ \hline 7 \end{array}$	$\begin{array}{r} 9 \\ + \boxed{} \\ \hline 18 \end{array}$	$\begin{array}{r} 7 \\ + \boxed{} \\ \hline 14 \end{array}$	$\begin{array}{r} 6 \\ + \boxed{} \\ \hline 10 \end{array}$
$\begin{array}{r} \boxed{} \\ +7 \\ \hline 13 \end{array}$	$\begin{array}{r} \boxed{} \\ +8 \\ \hline 15 \end{array}$	$\begin{array}{r} \boxed{} \\ +4 \\ \hline 12 \end{array}$	$\begin{array}{r} \boxed{} \\ +8 \\ \hline 9 \end{array}$	$\begin{array}{r} \boxed{} \\ +6 \\ \hline 13 \end{array}$

DIRECTIONS: Continuing with the review, fill in the blank spaces with the correct value.

$\begin{array}{r} 53 \\ + 5 \\ \hline 58 \end{array}$	$\begin{array}{r} 22 \\ + 6 \\ \hline 28 \end{array}$	$\begin{array}{r} 28 \\ + 1 \\ \hline \square \end{array}$	$\begin{array}{r} 31 \\ + 8 \\ \hline \square \end{array}$	$\begin{array}{r} 92 \\ + 6 \\ \hline \square \end{array}$
$\begin{array}{r} 55 \\ + 4 \\ \hline \square \end{array}$	$\begin{array}{r} 44 \\ + 4 \\ \hline \square \end{array}$	$\begin{array}{r} 12 \\ + 7 \\ \hline \square \end{array}$	$\begin{array}{r} 66 \\ + 2 \\ \hline \square \end{array}$	$\begin{array}{r} 73 \\ + 4 \\ \hline \square \end{array}$
$\begin{array}{r} 80 \\ + 7 \\ \hline \square \end{array}$	$\begin{array}{r} 91 \\ + 5 \\ \hline \square \end{array}$	$\begin{array}{r} 10 \\ + 9 \\ \hline \square \end{array}$	$\begin{array}{r} 35 \\ + 2 \\ \hline \square \end{array}$	$\begin{array}{r} 72 \\ + 2 \\ \hline \square \end{array}$

DIRECTIONS: Fill in the blank spaces with the correct value.

$$\begin{array}{r} 19 \\ + 5 \\ \hline 24 \end{array}$$

Diagram showing the addition of 19 and 5 to get 24. An arrow points from the 9 to the 1 in the tens place, and another arrow points from the 5 to the 4 in the ones place, illustrating the regrouping process.

$$\begin{array}{r} 25 \\ + 5 \\ \hline \square \end{array}$$

Diagram showing the addition of 25 and 5. An arrow points from the 5 to the 2 in the tens place, and another arrow points from the 5 to the 0 in the ones place.

$$\begin{array}{r} 36 \\ + 7 \\ \hline \square \end{array}$$

Diagram showing the addition of 36 and 7. An arrow points from the 6 to the 3 in the tens place, and another arrow points from the 7 to the 3 in the ones place.

$$\begin{array}{r} 17 \\ + 3 \\ \hline \square \end{array}$$

Diagram showing the addition of 17 and 3. An arrow points from the 7 to the 1 in the tens place, and another arrow points from the 3 to the 0 in the ones place.

$$\begin{array}{r} 24 \\ + 9 \\ \hline \square \end{array}$$

$$\begin{array}{r} 33 \\ + 8 \\ \hline \square \end{array}$$

$$\begin{array}{r} 12 \\ + 8 \\ \hline \square \end{array}$$

$$\begin{array}{r} 28 \\ + 9 \\ \hline \square \end{array}$$

$$\begin{array}{r} 39 \\ + 4 \\ \hline \square \end{array}$$

$$\begin{array}{r} 13 \\ + 9 \\ \hline \square \end{array}$$

$$\begin{array}{r} 20 \\ + 9 \\ \hline \square \end{array}$$

$$\begin{array}{r} 31 \\ + 9 \\ \hline \square \end{array}$$

$$\begin{array}{r} 18 \\ + 8 \\ \hline \square \end{array}$$

$$\begin{array}{r} 27 \\ + 8 \\ \hline \square \end{array}$$

$$\begin{array}{r} 38 \\ + 5 \\ \hline \square \end{array}$$

DIRECTIONS: Fill in the blank spaces with the correct value.

$\begin{array}{r} 49 \\ + 5 \\ \hline 54 \end{array}$	$\begin{array}{r} 55 \\ + 5 \\ \hline \square \end{array}$	$\begin{array}{r} 63 \\ + 7 \\ \hline \square \end{array}$	$\begin{array}{r} 72 \\ + 9 \\ \hline \square \end{array}$	$\begin{array}{r} 84 \\ + 8 \\ \hline \square \end{array}$
$\begin{array}{r} 96 \\ + 5 \\ \hline \square \end{array}$	$\begin{array}{r} 38 \\ + 8 \\ \hline \square \end{array}$	$\begin{array}{r} 41 \\ + 9 \\ \hline \square \end{array}$	$\begin{array}{r} 57 \\ + 7 \\ \hline \square \end{array}$	$\begin{array}{r} 62 \\ + 8 \\ \hline \square \end{array}$
$\begin{array}{r} 75 \\ + 8 \\ \hline \square \end{array}$	$\begin{array}{r} 83 \\ + 5 \\ \hline \square \end{array}$	$\begin{array}{r} 99 \\ + 9 \\ \hline \square \end{array}$	$\begin{array}{r} 45 \\ + 6 \\ \hline \square \end{array}$	$\begin{array}{r} 67 \\ + 8 \\ \hline \square \end{array}$

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

<u>EQUATION</u>	<u>CARRY?</u>	<u>SUM</u>
$18 + 3$	<input checked="" type="radio"/> YES <input type="radio"/> NO	21
$22 + 6$	<input type="radio"/> YES <input checked="" type="radio"/> NO	
$36 + 9$	<input type="radio"/> YES <input type="radio"/> NO	
$44 + 6$	<input type="radio"/> YES <input type="radio"/> NO	
$59 + 8$	<input type="radio"/> YES <input type="radio"/> NO	
$63 + 6$	<input type="radio"/> YES <input type="radio"/> NO	
$78 + 1$	<input type="radio"/> YES <input type="radio"/> NO	
$88 + 2$	<input type="radio"/> YES <input type="radio"/> NO	
$95 + 7$	<input type="radio"/> YES <input type="radio"/> NO	
$9 + 26$	<input type="radio"/> YES <input type="radio"/> NO	
$7 + 58$	<input type="radio"/> YES <input type="radio"/> NO	

DIRECTIONS: Now we'll try a little sideways addition with carrying.

$$18 + 4 = 22$$

$$32 + 9 = \square$$

$$13 + 7 = \square$$

$$38 + 5 = \square$$

$$15 + 6 = \square$$

$$34 + 9 = \square$$

$$17 + 7 = \square$$

$$34 + 4 = \square$$

$$19 + 4 = \square$$

$$26 + 6 = 32$$

$$45 + 5 = \square$$

$$29 + 9 = \square$$

$$42 + 8 = \square$$

$$21 + 6 = \square$$

$$41 + 9 = \square$$

$$28 + 8 = \square$$

$$49 + 2 = \square$$

$$27 + 3 = \square$$

DIRECTIONS: Let's continue with sideways addition with carrying for larger numbers.

$$85 + 5 = 90$$

$$74 + 7 = \boxed{81}$$

$$93 + 9 = \boxed{}$$

$$67 + 7 = \boxed{}$$

$$55 + 5 = \boxed{}$$

$$66 + 6 = \boxed{}$$

$$73 + 8 = \boxed{}$$

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

$$99 + 9 = \boxed{}$$

$$48 + 3 = \boxed{}$$

$$51 + 5 = \boxed{}$$

$$68 + 5 = \boxed{}$$

$$74 + 8 = \boxed{}$$

$$82 + 8 = \boxed{}$$

$$96 + 7 = \boxed{}$$

$$34 + 9 = \boxed{}$$

$$80 + 3 = \boxed{}$$

$$78 + 8 = \boxed{}$$

DIRECTIONS: Circle the correct sum for the equation.

$16 + 5$	20 21 22 23	$28 + 7$	25 35 45 55	$36 + 7$	33 34 42 43
$49 + 6$	45 46 65 55	$55 + 9$	59 69 64 65	$66 + 8$	74 68 86 65
$73 + 7$	79 80 83 87	$81 + 6$	90 97 87 86	$95 + 9$	99 100 91 104
$17 + 7$	77 17 24 34	$20 + 8$	28 38 20 18	$31 + 9$	38 39 40 41

DIRECTIONS: Circle the equation which has the correct sum.

96	$86 + 6$ $87 + 9$ $96 + 6$ $66 + 9$	27	$19 + 8$ $17 + 9$ $27 + 7$ $20 + 4$	35	$35 + 5$ $25 + 5$ $27 + 7$ $26 + 9$
41	$33 + 9$ $35 + 5$ $33 + 8$ $41 + 5$	56	$47 + 9$ $49 + 6$ $38 + 6$ $50 + 4$	39	$44 + 5$ $34 + 5$ $24 + 5$ $25 + 9$
62	$51 + 9$ $59 + 6$ $57 + 7$ $57 + 5$	78	$78 + 8$ $69 + 9$ $69 + 8$ $65 + 8$	83	$80 + 5$ $73 + 9$ $75 + 8$ $79 + 3$
97	$89 + 7$ $89 + 8$ $87 + 9$ $91 + 7$	74	$67 + 7$ $64 + 7$ $62 + 9$ $72 + 6$	46	$38 + 9$ $38 + 8$ $30 + 6$ $39 + 9$

DIRECTIONS: Connect each equation to its correct sum.

$41 + 6$ $53 + 4$ $29 + 8$ $18 + 9$	27 37 47 57	$26 + 7$ $51 + 2$ $39 + 4$ $58 + 5$	33 43 53 63
$69 + 5$ $82 + 2$ $58 + 6$ $87 + 7$	64 74 84 94	$21 + 4$ $39 + 6$ $58 + 7$ $77 + 8$	25 45 65 85
$39 + 9$ $58 + 8$ $67 + 7$ $89 + 3$	92 74 66 48	$58 + 9$ $47 + 6$ $27 + 8$ $68 + 8$	35 53 76 67
$85 + 4$ $72 + 5$ $48 + 5$ $58 + 7$	89 77 65 53	$80 + 5$ $83 + 5$ $86 + 5$ $89 + 5$	88 94 85 91

DIRECTIONS: Fill in the blank spaces with the correct value.

$\begin{array}{r} 26 \\ +6 \\ \hline 32 \end{array}$	$\begin{array}{r} 34 \\ +7 \\ \hline \boxed{41} \end{array}$	$\begin{array}{r} 45 \\ +5 \\ \hline \boxed{} \end{array}$	$\begin{array}{r} 57 \\ +9 \\ \hline \boxed{} \end{array}$	$\begin{array}{r} 63 \\ +8 \\ \hline \boxed{} \end{array}$
$\begin{array}{r} 76 \\ \boxed{+} \\ \hline 84 \end{array}$	$\begin{array}{r} 81 \\ \boxed{+} \\ \hline 88 \end{array}$	$\begin{array}{r} 89 \\ \boxed{+} \\ \hline 98 \end{array}$	$\begin{array}{r} 14 \\ \boxed{+} \\ \hline 23 \end{array}$	$\begin{array}{r} 24 \\ \boxed{+} \\ \hline 31 \end{array}$
$\begin{array}{r} \boxed{} \\ +7 \\ \hline 45 \end{array}$	$\begin{array}{r} \boxed{} \\ +9 \\ \hline 57 \end{array}$	$\begin{array}{r} \boxed{} \\ +7 \\ \hline 62 \end{array}$	$\begin{array}{r} \boxed{} \\ +5 \\ \hline 73 \end{array}$	$\begin{array}{r} \boxed{} \\ +6 \\ \hline 84 \end{array}$