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## Introduction

Addition and Subtraction: Beyond Math Facts (LP 250) is a practical resource workbook. Six sections of workbook pages provide students with structured addition and subtraction on a level beyond math facts.
Designed for any age student, Addition and Subtraction: Beyond Math Facts helps students master two-, three-, and four-digit addition and subtraction, with and without regrouping.

The 55 reproducible practice pages are suitable for:

- Children needing instruction, practice, or review of addition and subtraction with larger numbers
- Children in accelerated programs
- Children in remedial programs
- Children with math disabilities
- Older students who are still learning math facts

Knowledge and fluency of math facts is essential for success and proficiency in computation skills, and for solving real-life math problems.
If you are using this book and Two Plus Two Is Not Five: Easy Methods to Learn Addition and Subtraction (LP 200), you will find that the sequence in which the math facts are introduced is the same.

- Six sections of practice problems allow students to review a different group of addition and subtraction facts, as they learn how to add and subtract with two-, three-, and four-digit problems.
- Once introduced, the addition and subtraction facts are used throughout the book.
- Addition and subtraction are practiced together on nearly all the pages.

Pages are arranged in a format that is useful to $\star$ resource room teachers, $\star$ classroom teachers, $\star$ home schooling educators, $\star$ parents, and $\star$ tutors.

- Pre- and Post-Assessments and a Record-Keeping Chart are provided.
- The Guide to Teaching the Lessons is easy to use.
- Lessons can be easily individualized for different learning abilities.
- Most of the practice pages are divided into two sections so that half sheets can be assigned.
- Each section includes a Word Math page.

Experienced teachers can choose to start on page 1 or with the Pre-Assessment on page 57. Otherwise, read How to Use This Book and then the Guide to Teaching the Lessons. Enjoy teaching math!
Susan Greenwald, M.A. Ed.

# Guide to Teaching the Lessons 

Listed below with each section is a set of math facts. These are the facts that will be used in that section. Once facts are introduced, they will be reviewed throughout the book.

SECTION 1 (Pages 1-8)
Math facts: $1+1,1+2,2+1,1+3,3+1,1+4,4+1,1+5,5+1,1+6,6+1,1+7,7+1,1+8,8+1,1+9$, $9+1 ; 2+4,4+2,2+6,6+2,2+8,8+2 ; 2+2,3+3,4+4,5+5 ; 10-5,8-4,6-3,4-2 ; 10-1,9-1$, $8-1,7-1,6-1,5-1,4-1,3-1,2-1 ; 10-9,9-8,8-7,7-6,6-5,5-4,4-3,3-2$; number + zero, and zero + a number.
Page 1: Adding two- and one-digit numbers. No regrouping.
㖊 TIP: Remember to use meaningful real-life word math problems when introducing new lessons.
Example: There are 71 children and five teachers in the second-grade classes. How many people in all?
Use a place value chart to show 71 as 7 tens and 1 one. Ask your students to add on 5 more ones. First, count the 7 tens: $10,20,30,40,50,60,70$. Then add on the ones: $71,72,73,74,75,76$.

Next, do the math on paper for $\mathbf{7 1 + 5}$. Remember to do this with a few more problems. Then allow students to complete the page.

TIP: Instruct students to add or subtract numbers in the 1 's column first. $1+5=6$.

| 71 |
| ---: |
| +11 |
| +5 |
| 6 |

Then bring the 7 down to the answer space, as there are no other numbers in the 10's column to add. $(7+0=7)$

Page 2: Subtracting with two- and one-digit numbers. No regrouping.
Refer to page 1 instructions above.
Page 3: Addition and subtraction practice. No regrouping.
SUGGESTION: Call attention to the mix of addition and subtraction signs on this practice page.
Page 4: Adding and subtracting with two-digit numbers. No regrouping. 6142
Use a place value chart to show $61+25$. Do the same for 42-31 in row D. $\frac{+25}{86} \quad \frac{-31}{11}$

## ADDITION REGROUPING:

- Use counting cubes to show how 10 cubes will not fit in either the 1's, 10 's, or 100 's place.
- Note that not all the practice problems require regrouping.


## Pages 7-8: Adding two- and one-digit numbers.

Regrouping to the 10's place, and subtraction practice.
Show $27+1$ and $28+1$. There is no need to regroup. Next, show $29+1$. The 10 cubes will not fit in the 1 's place space. To add $9+1$, explain that the 10 ones are regrouped for 1 new ten. Place the new ten in the 10 's place. Now there are 3 tens, or 30 , and zero ones.

| Hundreds | Tens | Ones | Regrouped ten | Hundreds | Tens | Ones | $\begin{array}{r} 2 \text { tens } \\ +1 \text { ten } \\ \hline \end{array}$ | $\begin{array}{r}20 \\ +10 \\ \hline\end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\square$ | $\square$ |  |  | $\square$ |  |  |  |
|  | $\square$ | $\square$ | $29-29$ |  | $\square$ |  |  |  |
|  |  | $\square$ | 292929 |  | $\square$ |  |  |  |
|  |  | $\square$ | $\underline{+1}+1+1$ |  | $\uparrow$ |  |  |  |
|  |  | $\square$ | - 0 |  | , |  | 3 tens | 30 |
|  |  | $\square$ |  |  |  |  |  |  |
|  |  | $\square$ | 10 ones $=1$ new ten | $\sim$ |  |  |  |  |
|  |  | $\square$ | $\square$ |  |  |  |  |  |
|  |  | - |  |  | $30+0$ |  |  |  |

Next, do the math on paper.
$\square$ TIP: Remind students to add the numbers in the 1's column first, and to show a new ten by writing a tiny numeral 1 at the top of the 10 's column. Then add the tens.

Name
Adding two- and one-digit numbers. No regrouping.
$\begin{array}{r}71 \\ +\quad 5 \\ \hline\end{array}$
$\begin{array}{r}42 \\ +\quad 1 \\ \hline\end{array}$
$\begin{array}{r}24 \\ +\quad 2 \\ \hline\end{array}$
$\begin{array}{r}2 \\ +\quad 8 \\ \hline\end{array}$
$\begin{array}{r}67 \\ +\quad 1 \\ \hline\end{array}$
$\begin{array}{r}94 \\ +\quad 4 \\ \hline\end{array}$
B. $\begin{array}{r}14 \\ +\quad 1 \\ \hline\end{array}$

C. $\begin{array}{r}8 \\ +\quad 2 \\ \hline\end{array}$

$\begin{array}{r}5 \\ +\quad 5 \\ \hline\end{array}$
$\begin{array}{r}31 \\ +\quad 8 \\ \hline\end{array}$
D. $\begin{array}{r}81 \\ +\quad 7 \\ \hline\end{array}$
$\begin{array}{r}33 \\ +\quad 1 \\ \hline\end{array}$
$\begin{array}{r}6 \\ +\quad 2 \\ \hline\end{array}$
$\begin{array}{r}91 \\ +\quad 2 \\ \hline\end{array}$
$\begin{array}{r}55 \\ +\quad 1 \\ \hline\end{array}$
$\begin{array}{r}63 \\ +\quad 3 \\ \hline\end{array}$
$\begin{array}{r}61 \\ +\quad 6 \\ \hline\end{array}$
10
51
$\begin{array}{r}2 \\ +\quad 4 \\ \hline\end{array}$

$\begin{array}{r}1 \\ +\quad 9 \\ \hline\end{array}$

$\begin{array}{r}20 \\ +\quad 1 \\ \hline\end{array}$

$$
\begin{array}{r}
96 \\
+\quad 2 \\
\hline
\end{array}
$$

$$
\begin{array}{r}
71 \\
+\quad 1 \\
\hline
\end{array}
$$

Name
Subtracting with two- and one-digit numbers. No regrouping.

| 29 |  |  |  |  |
| ---: | ---: | ---: | ---: | ---: |
| A. |  |  |  |  |
| $-\quad 1$ |  |  |  |  |
| $-\quad 2$ | $-\quad 9$ | 49 | 58 | 98 |
| $-\quad 8$ |  |  |  |  |

$\begin{array}{r}6 \\ \text { B. } \\ -\quad 57 \\ -\quad 1 \\ -\quad 3 \\ -\quad 2 \\ \hline\end{array}$

| 92 | 10 |  |
| ---: | ---: | ---: | ---: | ---: |
| C. |  |  |
| $-\quad 17$ |  |  |
| $-\quad 5$ |  |  |
| $-\quad 6$ | $-\quad 3$ | 88 |
| $-\quad 4$ |  |  |


| 74 |  |  |
| ---: | ---: | ---: | ---: | ---: |
| D. | 53 | 36 |
| $-\quad 2$ | $-\quad 5$ |  |
| $-\quad 15$ | $-\quad 3$ |  |

$\begin{array}{r}46 \\ \text { E. } \\ -\quad 1 \\ -\quad 2 \\ -\quad 8\end{array}-\quad \begin{array}{r}79 \\ -\quad 9 \\ \hline\end{array}$
$\begin{array}{r}10 \\ \text { F. } \\ -\quad 55 \\ -\quad 4 \\ -\quad 1 \\ \hline\end{array}$

Name
Addition and subtraction practice. No regrouping.
$\begin{array}{r}34 \\ \text { A. } \quad 18 \\ \hline\end{array}$
$\begin{array}{r}86 \\ -\quad 3 \\ \hline\end{array}$
$\begin{array}{r}25 \\ -\quad 1 \\ \hline\end{array}$
$\begin{array}{r}91 \\ +\quad 4 \\ \hline\end{array}$
$\begin{array}{r}10 \\ -\quad 9 \\ \hline\end{array}$

$\begin{array}{r}54 \\ \text { D. } \\ \hline-\quad 20 \\ +\quad 4 \\ \hline\end{array} \begin{array}{r}5 \\ \hline\end{array}$


Adding two-digit numbers. No regrouping.
A. $\begin{array}{r}61 \\ +25 \\ \hline\end{array}$
$\begin{array}{r}12 \\ +31 \\ \hline\end{array}$
$\begin{array}{r}20 \\ +47 \\ \hline\end{array}$
$\begin{array}{r}24 \\ +21 \\ \hline\end{array}$
$\begin{array}{r}76 \\ +12 \\ \hline\end{array}$
$\begin{array}{r}16 \\ 61 \\ \hline\end{array}$
B. $\begin{array}{r}44 \\ +24 \\ \hline\end{array}$
$\begin{array}{r}82 \\ +16 \\ \hline\end{array}$
$\begin{array}{r}46 \\ +12 \\ \hline\end{array}$


19
$+40$
C. $\begin{array}{r}22 \\ +12 \\ \hline\end{array}$
$\begin{array}{r}15 \\ +41 \\ \hline\end{array}$
$\begin{array}{r}34 \\ +\quad 12 \\ \hline\end{array}$
$\begin{array}{r}81 \\ +\quad 11 \\ \hline\end{array}$
$\begin{array}{r}22 \\ 62 \\ \hline\end{array}$

Subtracting with two-digit numbers. No regrouping.

| 42 | 87 | 39 | 93 | 26 | 76 |
| ---: | ---: | ---: | ---: | ---: | ---: |
| -31 | -41 | -21 | -13 |  |  |



Name
Review adding two- and one-digit numbers. Regrouping.
A. $\begin{array}{r}26 \\ +\quad 6 \\ \hline\end{array}$
$\begin{array}{r}68 \\ +\quad 9 \\ \hline\end{array}$
$\begin{array}{r}32 \\ +\quad 4 \\ \hline\end{array}$

$$
\begin{array}{r}
53 \\
+\quad 2 \\
\hline
\end{array}
$$



$$
\begin{array}{r}
39 \\
-\quad 6 \\
\hline
\end{array}
$$

B. $\begin{array}{r}84 \\ +\quad 6 \\ \hline\end{array}$
$\begin{array}{r}93 \\ +\quad 4 \\ \hline\end{array}$


$$
\begin{array}{r}
14 \\
+\quad 3 \\
\hline
\end{array}
$$

$$
\begin{array}{rrrrr}
49 & 79 & 15 & 17 & 48 \\
\hline & +\quad 4 \\
+\quad 3 & +\quad 9 & +22 \\
\hline
\end{array}
$$

Review addition and subtraction. Addition regrouping.
D. $\begin{array}{r}55 \\ +\quad 9 \\ \hline\end{array}$
$\begin{array}{r}73 \\ +\quad 5 \\ \hline\end{array}$
$\begin{array}{r}62 \\ +\quad 8 \\ \hline\end{array}$
$\begin{array}{r}12 \\ -\quad 6 \\ \hline\end{array}$
$\begin{array}{r}39 \\ +\quad 8 \\ \hline\end{array}$
E. $\begin{array}{r}82 \\ +\quad 9 \\ \hline\end{array}$
$\begin{array}{r}66 \\ +\quad 62 \\ \hline\end{array}$


$$
\begin{array}{r}
95 \\
+\quad 3 \\
\hline
\end{array}
$$

$$
\begin{array}{r}
49 \\
+\quad 7 \\
\hline
\end{array}
$$

$$
\begin{array}{r}
39 \\
+\quad 1 \\
\hline
\end{array}
$$

$$
\begin{array}{r}
86 \\
+\quad 2 \\
\hline
\end{array}
$$

$$
\begin{array}{r}
56 \\
+\quad 4 \\
\hline
\end{array}
$$



Name
Subtracting with three- and two-digit numbers. Two-place regrouping.
$\begin{array}{r}958 \\ \text { A. } \\ -\quad 1926 \\ \hline\end{array}$
$\begin{array}{r}512 \\ 634 \\ -\quad 67 \\ \hline 7\end{array}$
$\begin{array}{r}470 \\ -\quad 78 \\ \hline\end{array}$
633
$\begin{array}{r}-\quad 94 \\ \hline\end{array}$
$\begin{array}{r}907 \\ \text { B. } \quad 37 \\ \hline\end{array}$
$\begin{array}{r}921 \\ -\quad 74 \\ \hline\end{array}$
716
$\begin{array}{r}979 \\ -\quad 52 \\ \hline\end{array}$
$\begin{array}{r}466 \\ -\quad 58 \\ \hline\end{array}$


Addition and subtraction practice. Regrouping.


E. $\begin{array}{r}812 \\ -\quad 38 \\ \hline\end{array}$
$\begin{array}{r}287 \\ +\quad 68 \\ \hline\end{array}$


457
$\begin{array}{r}+83 \\ \hline\end{array}$
F. $\begin{array}{r}234 \\ +\quad 76 \\ \hline\end{array}$
$\begin{array}{r}168 \\ +\quad 24 \\ \hline\end{array}$
$\begin{array}{r}970 \\ -\quad 47 \\ \hline\end{array}$
$\begin{array}{r}696 \\ +\quad 27 \\ \hline\end{array}$
$\begin{array}{r}325 \\ +\quad 76 \\ \hline\end{array}$

Name $\qquad$
Addition and subtraction practice. Regrouping.

| 128 |  |  |
| ---: | ---: | ---: | ---: |
| A. |  |  |
| $-\quad 4622$ |  |  |
| $-\quad 86$ | $-\quad 23$ | 252 |


| 465 |
| ---: |
| B. |
| $+\quad 484$ |
| $-\quad 25$ |



Addition and subtraction practice, including money. Two-place regrouping.
D. $\begin{array}{r}\$ 5.66 \\ +.85\end{array}$
$\$ 8.61$
309
743
$\begin{array}{r} \\ +\quad 57 \\ \hline\end{array}$
\$2.84
$+.78$
$\begin{array}{r}950 \\ -\quad 92 \\ \hline\end{array}$
$\$ 4.44$
\$1.59
\$2.53
666
$+.21$
$-.24$
$\begin{array}{r}-\quad 80 \\ \hline\end{array}$

| $\$ 3.86$ | 872 | 989 | $\$ 6.17$ | $\$ 5.77$ |
| ---: | ---: | ---: | ---: | ---: |
| $-\quad .37$ | $-\quad 62$ | -.72 | +.26 |  |

