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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.

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 71+5. Remember to do this with a few more problems. Then allow students to complete the page.

\square TIP: Instruct students to add or subtract numbers in the 1's column first. $1+5=6$.	71	71
Then bring the 7 down to the answer space, as there are no other numbers in the 10's	<u>+ 5</u>	<u>+ 5</u>
column to add. $(7+0=7)$	6	76

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.	61	42
Use a place value chart to show $61+25$. Do the same for $42-31$ in row D.	+25	- 31
	86	11

ADDITION REGROUPING:

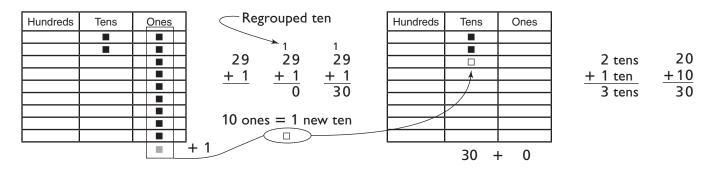
• Use counting cubes to show how 10 cubes will not fit in either the 1's, 10's, or 100's place.

• 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.



Next, do the math on paper.

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.

71 67 24 2 94 42 + 1 + 2 8 Α. + 5 ++ 1 + 4 52 82 14 73 21 3 + 3 + 6 + 3 + 4 B. + 1 + 0 26 <u>+ 1</u> 60 <u>+ 5</u> 5 <u>+ 5</u> 9 31 8 C. <u>+ 2</u> + 1 + 8 91 <u>+ 2</u> 6 + 2 55 81 33 63 + 1 + 1 D. + 7 + 3 61 10 51 2 18 1 + 4 + 8 + 4 + 1 E. + 6 + 9 47 20 82 96 71 4 + 2 + 1 + 0 F. + 4 + 2 + 1

Name _____

SECTION 1

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

- 2 - 8 Α. - 1 — - 5 - 2 - 3 Β. - 1 - 6 - 4 C. – 1 - 5 - 1 -<u>3</u> - 1 D. – 2 - 1 - 9 - 8 Ε. - 2 - 1 - 1 F.

Name _____

Addition and subtraction practice. No regrouping.

25 34 86 18 91 10 7 3 Α. + 4 1 + 4 - 9 — 22 92 71 13 45 11 - 1 + 2 <u>+</u> 4 Β. + 8 - 4 + 6 65 39 73 2 53 67 C. <u>+ 0</u> - 8 + 8 + 3 + 1 - 6 94 <u>+ 2</u> 54 30 67 5 41 + 5 D. – 2 + 4 - 1 + 7 42 58 10 76 83 8 - 5 + 2 E. + 6 - 4 - 1 - 2 86 26 59 31 1 10 + 2 F. + 9 - 1 1 + 1 5

SECTION 1

Add	Adding two-digit numbers. No regrouping.						
A.	61	12	20	24	76	16	
	<u>+ 25</u>	<u>+ 31</u>	+ 47	<u>+ 21</u>	<u>+ 12</u>	<u>+ 61</u>	
B.	44	82	46	11	52	19	
	<u>+ 24</u>	<u>+ 16</u>	<u>+ 12</u>	<u>+ 86</u>	<u>+ 14</u>	<u>+ 40</u>	
C.	22	15	60	34	81	22	
	+ 12	<u>+ 41</u>	+ 29	<u>+ 12</u>	+ 11	<u>+ 62</u>	

Subtracting with two-digit numbers. No regrouping.

Name _____

D.	42	87	39	93	26	76
	<u>- 31</u>	<u>- 41</u>	<u>- 21</u>	<u>- 81</u>	<u>- 13</u>	<u>- 61</u>
E.	58	99	65	76	63	47
	<u>- 41</u>	- 18	<u>- 31</u>	<u>- 13</u>	- 52	<u>- 26</u>
F.	64	56	44	85	58	84
	<u>- 11</u>	- 15	<u>- 13</u>	<u>- 14</u>	- 44	<u>- 72</u>

Name

Review adding two- and one-digit numbers. Regrouping.

A.	26	68	32	53	87	39
	<u>+ 6</u>	<u>+ 9</u>	<u>+ 4</u>	<u>+ 2</u>	<u>+ 7</u>	<u>+ 6</u>
B.	84	93	25	71	29	14
	<u>+ 6</u>	<u>+ 4</u>	<u>+ 5</u>	<u>+ 9</u>	<u>+ 2</u>	<u>+ 3</u>
C.	49	79	15	17	48	22
	<u>+ 4</u>	+ 3	+ 3	<u>+ 9</u>	<u>+ 2</u>	+ 3

Review addition and subtraction. Addition regrouping.

D.	55	78	73	62	12	39
	<u>+ 9</u>	<u>- 4</u>	<u>+ 5</u>	<u>+ 8</u>	<u>- 6</u>	<u>+ 8</u>
E.	82	66	92	42	27	95
	+ 9	+ 6	- 0	<u>+ 3</u>	<u>+ 7</u>	<u>+ 3</u>
F.	56	14	49	39	86	56
	- 6	<u>- 7</u>	<u>+ 7</u>	<u>+ 1</u>	+ 2	<u>+ 4</u>

SECTION 2

Name

Subtracting with three- and two-digit numbers. Two-place regrouping.

A.	958 - 19	326 - 43	$\frac{63^{12}}{63^{14}}$ $\frac{-67}{7}$	470 <u>- 78</u>	633 <u>- 94</u>
Β.	907	921	716	979	466
	<u>- 37</u>	- 74	<u>- 59</u>	<u>- 52</u>	<u>- 58</u>
C.	883	203	774	822	539
	- 45	- 90	<u>- 83</u>	- 23	- 97

Addition and subtraction practice. Regrouping.

D.	707	375	329	142	970
	<u>- 82</u>	<u>- 66</u>	<u>- 86</u>	<u>+ 85</u>	<u>- 12</u>
E.	812	287	564	514	457
	<u>- 38</u>	<u>+ 68</u>	+ 59	<u>- 15</u>	<u>+ 83</u>
F.	234	168	970	696	325
	<u>+ 76</u>	+ 24	- 47	+ 27	<u>+ 76</u>

SECTION 5

Name _

SECTION 5

Addition and subtraction practice. Regrouping.

A.	128	532	970	252	880
	<u>- 46</u>	<u>- 86</u>	<u>- 23</u>	<u>+ 67</u>	<u>- 95</u>
Β.	465	784	383	319	677
	<u>+ 47</u>	<u>- 25</u>	<u>- 98</u>	<u>- 24</u>	<u>+ 74</u>
C.	883	169	223	729	405
	+ 40	<u>+ 77</u>	- 49	- 95	- 73

Addition and subtraction practice, including money. Two-place regrouping.

D.	\$5.66	\$8.61	309	743	\$2.84
	<u>+ .85</u>	<u>67</u>	<u>- 83</u>	<u>+ 57</u>	<u>+ .78</u>
E.	950	\$4.44	\$1.59	\$2.53	666
	- 92	<u>57</u>	<u>+ .21</u>	<u>24</u>	<u>- 80</u>
F.	\$3.86	872	989	\$6.17	\$5.77
	37	+ 39	- 62	<u>72</u>	<u>+ .26</u>