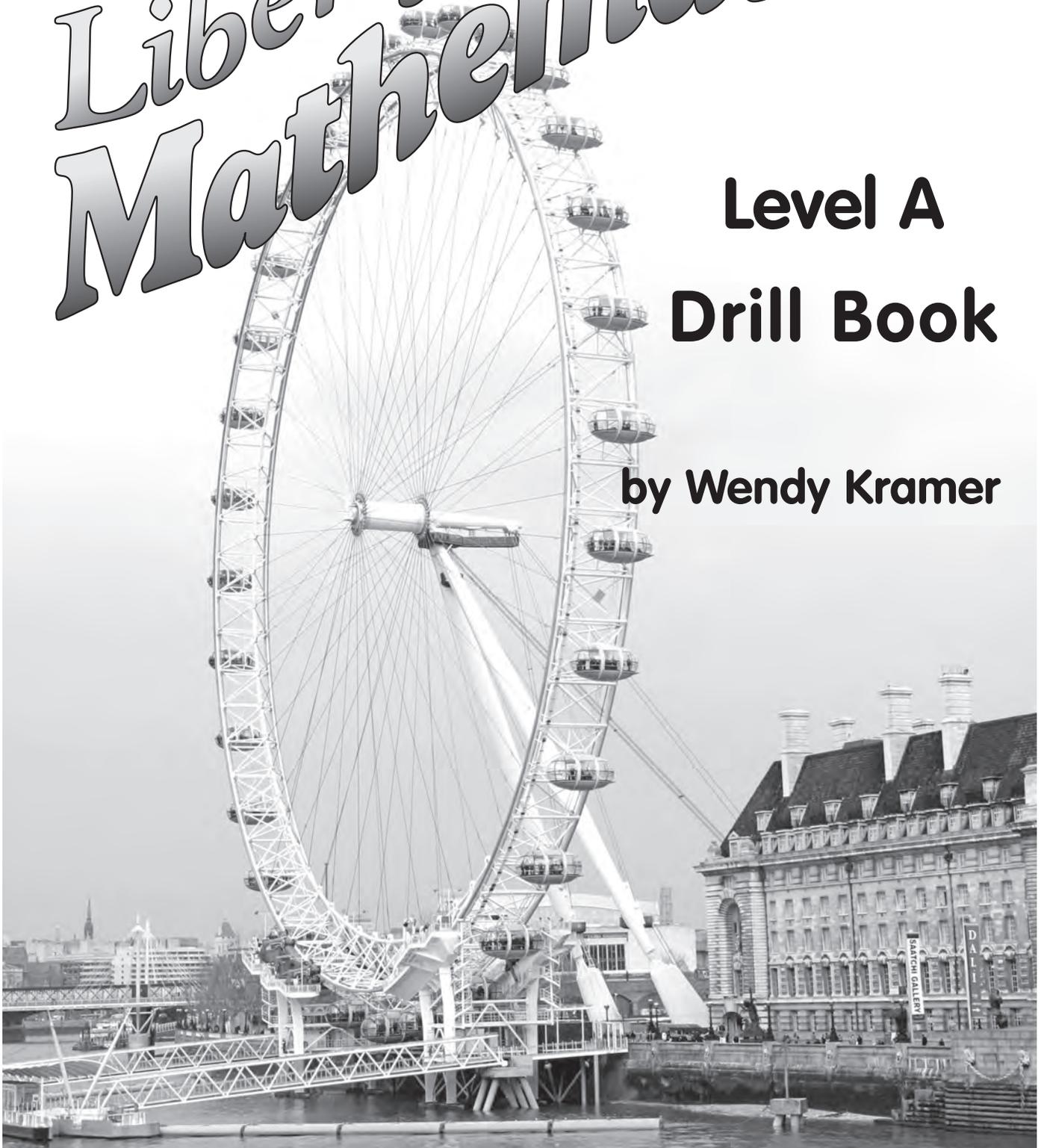


Liberty Mathematics

**Level A
Drill Book**

by Wendy Kramer

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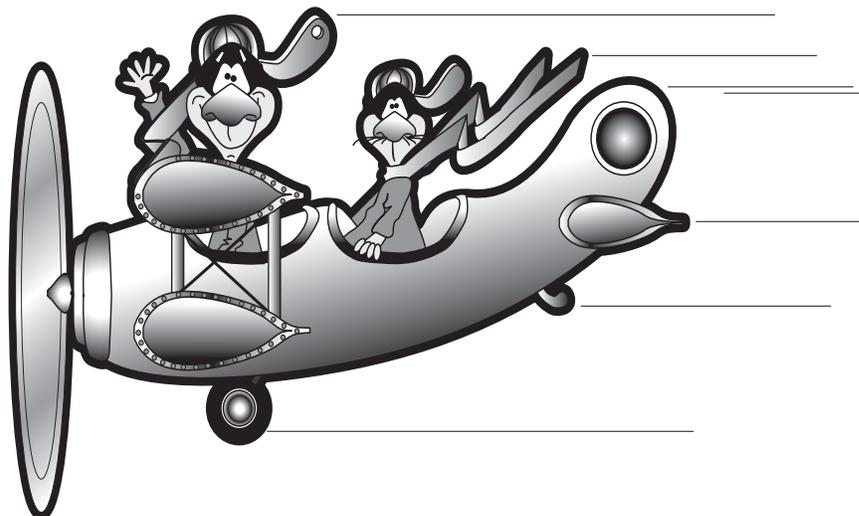
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Written by Wendy Kramer
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Copyediting by Diane C. Olson
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—Introduction—



This drill book is a supplement for the student workbook, *Liberty Mathematics Level A*. Students will learn many important concepts this year, but perhaps the most important is the memorization of the basic addition and subtraction facts. Many future skills will depend on accuracy with addition and subtraction.

Both the teacher's manual and the instructions within the student workbook give suggestions for drills, games, and exercises to supplement the daily work in the text. This booklet can be a part of drill time several days a week. You may also copy as many drill sheets as you need for your student to master a particular set of math facts.

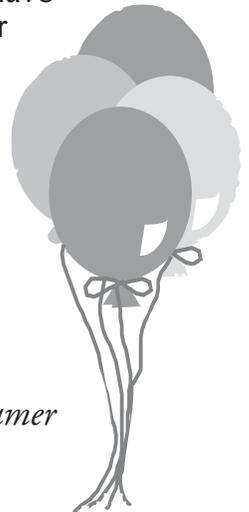
Each "Drill Sheet" contains twenty-five problems. These should be used to encourage *accuracy*. Each "Speed Drill" contains fifty problems. These should be used to encourage both *accuracy* and *speed*. Be sure to correct the drills promptly, and have your student rework those he gets wrong.

The drill sheets include more and more facts as they are covered in the text. At the top of each drill sheet, a page number appears which corresponds to what the student should have completed in the workbook. For example, if the page number in the corner of the drill sheet is "page 88," your student should have completed the first 88 pages in the text before he does that particular drill. Of course, the drill does not have to be completed immediately after the page indicated, but use the drills to help your student review the facts he has already learned.

It is not absolutely necessary for every drill in this book to be completed. Use the drills at your discretion to best help your student learn the math facts introduced in this course. We suggest that you store these sheets in a separate folder after you have removed them.

God bless you and your student(s) as you work for Him!

—Wendy Kramer



Drill Sheet • Adding to 10

 Add.

Complete after page 14.

$$\begin{array}{r} 2 \\ +4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ +3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ +1 \\ \hline \end{array}$$

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

$$\begin{array}{r} 4 \\ +5 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ +2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ +2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ +2 \\ \hline \end{array}$$

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

$$\begin{array}{r} 5 \\ +0 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ +6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ +0 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ +1 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ +0 \\ \hline \end{array}$$

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

$$\begin{array}{r} 5 \\ +1 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ +2 \\ \hline \end{array}$$

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

$$\begin{array}{r} 6 \\ +4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ +1 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ +4 \\ \hline \end{array}$$

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

$$\begin{array}{r} 6 \\ +1 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ +3 \\ \hline \end{array}$$

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

Speed Drill Instructions

Your student's first **Speed Drill** appears on the next page. He already knows the facts in the drill, but now he needs to learn to answer them *quickly* and *accurately*. To help him learn this skill, you should have him do this drill two or three times. You may make as many copies of this drill (or any other drill in this drill book) as necessary.

There are different ways for you to handle these timed tests. You will probably want to start off by simply testing your student and marking his time at the top of the page. There is a "minute chart" to help you. For example, if your student takes five minutes to complete the drill, circle the **5** on the chart. If he takes longer than five minutes, write the time in the margin. *The goal is for your student to improve his time without losing accuracy.*

As your student's test-taking skills improve, give him a time limit to work towards. For example, tell him he has four minutes to complete the speed drill and circle the **4** on the minutes chart. When the time is up, draw a line beside the last problem he has completed; then allow him to finish the rest. As he progresses, challenge him to finish the drill in three minutes.

Do not dwell on any one speed drill. Test your student only a few times. Then move on to the next speed drill or set of drill sheets as he moves forward in the workbook. By the end of the year, your student should be able to accurately complete fifty problems in less than three minutes. This will indicate that he knows his math facts well.

Finally, there is a chart on page vi of this drill book, which is provided to enable you to track your student's progress in taking these timed tests. There are fifty possible points per **Speed Drill**. Mark the number of correct answers, thirty or more, on the chart for each drill. If your student is unable to answer at least thirty correctly, have him take the test over until he is able to do so.

Speed Drill 2 • Adding to 10

This is a timed test. Circle the number of minutes it takes your student to complete the test. Alternatively, you may circle the number of minutes you are giving him to complete it, and stop his work at that time. **Complete after page 14.**

| | | | | |
|----------|-----------|-----------|-----------|-----------|
| 1 Minute | 2 Minutes | 3 Minutes | 4 Minutes | 5 Minutes |
|----------|-----------|-----------|-----------|-----------|

 Add.

Number Wrong _____

$3 + 5 = \underline{\quad}$ $2 + 4 = \underline{\quad}$ $2 + 1 = \underline{\quad}$ $7 + 1 = \underline{\quad}$

$1 + 2 = \underline{\quad}$ $7 + 2 = \underline{\quad}$ $2 + 4 = \underline{\quad}$ $8 + 2 = \underline{\quad}$

$7 + 1 = \underline{\quad}$ $3 + 3 = \underline{\quad}$ $5 + 3 = \underline{\quad}$ $5 + 0 = \underline{\quad}$

$1 + 1 = \underline{\quad}$ $9 + 1 = \underline{\quad}$ $7 + 0 = \underline{\quad}$ $6 + 3 = \underline{\quad}$

$3 + 1 = \underline{\quad}$ $0 + 0 = \underline{\quad}$ $6 + 1 = \underline{\quad}$ $2 + 8 = \underline{\quad}$

$4 + 5 = \underline{\quad}$ $5 + 1 = \underline{\quad}$ $3 + 3 = \underline{\quad}$ $1 + 2 = \underline{\quad}$

$4 + 2 = \underline{\quad}$ $4 + 4 = \underline{\quad}$ $1 + 9 = \underline{\quad}$ $1 + 8 = \underline{\quad}$

$9 + 0 = \underline{\quad}$ $3 + 6 = \underline{\quad}$ $3 + 2 = \underline{\quad}$ $2 + 5 = \underline{\quad}$

$10 + 0 = \underline{\quad}$ $6 + 4 = \underline{\quad}$ $1 + 7 = \underline{\quad}$ $1 + 3 = \underline{\quad}$

$5 + 2 = \underline{\quad}$ $1 + 8 = \underline{\quad}$ $2 + 2 = \underline{\quad}$ $2 + 6 = \underline{\quad}$

$3 + 7 = \underline{\quad}$ $2 + 3 = \underline{\quad}$ $5 + 4 = \underline{\quad}$ $1 + 5 = \underline{\quad}$

$8 + 0 = \underline{\quad}$ $2 + 6 = \underline{\quad}$ $5 + 5 = \underline{\quad}$ $4 + 1 = \underline{\quad}$

$3 + 5 = \underline{\quad}$ $7 + 3 = \underline{\quad}$

Number Correct _____

Drill Sheet • Subtracting from 8

 Subtract.

Complete after page 56.

$$\begin{array}{r} 6 \\ -3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ -7 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ -2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ -6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ -3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ -1 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ -2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ -1 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ -2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ -6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ -2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ -4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ -5 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ -1 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ -3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ -3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ -5 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ -1 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ -8 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ -5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ -4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ -1 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ -4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ -1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ -3 \\ \hline \end{array}$$

Instructions for Drills

As the numbers involved in these drills get larger, there will be more facts that can be solved by columns. This will be obvious on the drill sheets. On the speed drills, your student will have to think a little harder. If it is not immediately simple, practice with him during drill time.

For example, show him that $\begin{array}{r} 12 \\ +1 \\ \hline \end{array}$ is the same as $12 + 1 = \underline{\quad}$. He needs to add the numbers in the ones column first (if necessary). In $12 + 1 = \underline{\quad}$, the 2 in the first number and the 1 in the second number add up to 3. There is also 1 ten, so $12 + 1 = 13$.

Remind him of this, and help him at first, on the speed drills. Because the facts that can be completed by columns do not really need to be memorized, they will not be emphasized during speed drill work.

Drill Sheet • Adding to 11, Subtracting from 10

 Add or subtract.

Complete after page 81.

$$\begin{array}{r} 3 \\ +5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ +4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ -2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ -4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ +4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ +4 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ +0 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ -4 \\ \hline \end{array}$$

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

$$\begin{array}{r} 6 \\ +2 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ -7 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ -3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ +5 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ +3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ -5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ +3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ -7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ -6 \\ \hline \end{array}$$

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

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

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

$$\begin{array}{r} 6 \\ +5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ -4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ -5 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ -4 \\ \hline \end{array}$$

Speed Drill 9 • Adding to 12, Subtracting from 10

This is a timed test. Circle the number of minutes it takes your student to complete the test. Alternatively, you may circle the number of minutes you are giving him to complete it, and stop his work at that time. **Complete after page 88.**

| | | | | |
|----------|-----------|-----------|-----------|-----------|
| 1 Minute | 2 Minutes | 3 Minutes | 4 Minutes | 5 Minutes |
|----------|-----------|-----------|-----------|-----------|

 Add or subtract.

Number Wrong _____

$6 - 2 = \underline{\quad}$ $9 + 2 = \underline{\quad}$ $8 - 5 = \underline{\quad}$ $2 + 5 = \underline{\quad}$

$10 - 8 = \underline{\quad}$ $8 - 7 = \underline{\quad}$ $6 - 4 = \underline{\quad}$ $3 + 7 = \underline{\quad}$

$4 + 7 = \underline{\quad}$ $10 - 5 = \underline{\quad}$ $4 - 2 = \underline{\quad}$ $10 - 9 = \underline{\quad}$

$2 + 3 = \underline{\quad}$ $6 + 5 = \underline{\quad}$ $6 + 2 = \underline{\quad}$ $7 - 4 = \underline{\quad}$

$5 + 4 = \underline{\quad}$ $4 + 2 = \underline{\quad}$ $7 + 5 = \underline{\quad}$ $4 + 8 = \underline{\quad}$

$6 - 6 = \underline{\quad}$ $1 + 7 = \underline{\quad}$ $9 - 6 = \underline{\quad}$ $6 - 2 = \underline{\quad}$

$7 + 2 = \underline{\quad}$ $5 - 4 = \underline{\quad}$ $4 - 3 = \underline{\quad}$ $3 + 3 = \underline{\quad}$

$9 - 3 = \underline{\quad}$ $4 - 2 = \underline{\quad}$ $3 + 4 = \underline{\quad}$ $8 - 4 = \underline{\quad}$

$4 - 1 = \underline{\quad}$ $6 + 3 = \underline{\quad}$ $9 - 1 = \underline{\quad}$ $1 + 2 = \underline{\quad}$

$8 - 4 = \underline{\quad}$ $3 + 8 = \underline{\quad}$ $4 + 6 = \underline{\quad}$ $7 - 3 = \underline{\quad}$

$3 + 5 = \underline{\quad}$ $9 - 7 = \underline{\quad}$ $6 + 6 = \underline{\quad}$ $9 - 4 = \underline{\quad}$

$6 + 4 = \underline{\quad}$ $7 + 3 = \underline{\quad}$ $10 - 6 = \underline{\quad}$ $7 + 4 = \underline{\quad}$

$7 - 6 = \underline{\quad}$ $10 - 2 = \underline{\quad}$

Number Correct _____

Speed Drill 27 • Subtracting from 13, Adding to 18

This is a timed test. Circle the number of minutes it takes your student to complete the test. Alternatively, you may circle the number of minutes you are giving him to complete it, and stop his work at that time. **Complete after page 161.**

| | | | | |
|----------|-----------|-----------|-----------|-----------|
| 1 Minute | 2 Minutes | 3 Minutes | 4 Minutes | 5 Minutes |
|----------|-----------|-----------|-----------|-----------|

 Subtract or add.

Number Wrong _____

$10 - 6 = \underline{\quad}$ $4 + 5 = \underline{\quad}$ $13 - 4 = \underline{\quad}$ $11 - 5 = \underline{\quad}$

$12 - 3 = \underline{\quad}$ $13 - 5 = \underline{\quad}$ $6 + 7 = \underline{\quad}$ $5 + 9 = \underline{\quad}$

$6 + 8 = \underline{\quad}$ $6 + 6 = \underline{\quad}$ $4 + 9 = \underline{\quad}$ $12 - 6 = \underline{\quad}$

$5 + 5 = \underline{\quad}$ $8 - 4 = \underline{\quad}$ $11 - 5 = \underline{\quad}$ $7 + 3 = \underline{\quad}$

$12 - 5 = \underline{\quad}$ $10 - 5 = \underline{\quad}$ $4 + 6 = \underline{\quad}$ $11 - 4 = \underline{\quad}$

$9 + 4 = \underline{\quad}$ $3 + 5 = \underline{\quad}$ $13 - 7 = \underline{\quad}$ $2 + 2 = \underline{\quad}$

$8 - 6 = \underline{\quad}$ $7 - 4 = \underline{\quad}$ $5 - 2 = \underline{\quad}$ $12 - 9 = \underline{\quad}$

$4 + 3 = \underline{\quad}$ $12 - 7 = \underline{\quad}$ $5 + 7 = \underline{\quad}$ $3 + 5 = \underline{\quad}$

$11 - 7 = \underline{\quad}$ $7 + 7 = \underline{\quad}$ $12 - 4 = \underline{\quad}$ $8 - 7 = \underline{\quad}$

$8 + 4 = \underline{\quad}$ $4 + 7 = \underline{\quad}$ $1 + 1 = \underline{\quad}$ $3 - 1 = \underline{\quad}$

$13 - 6 = \underline{\quad}$ $4 + 6 = \underline{\quad}$ $10 - 6 = \underline{\quad}$ $13 - 8 = \underline{\quad}$

$7 + 5 = \underline{\quad}$ $13 - 9 = \underline{\quad}$ $5 + 8 = \underline{\quad}$ $11 - 6 = \underline{\quad}$

$12 - 8 = \underline{\quad}$ $3 + 9 = \underline{\quad}$

Number Correct _____

Drill Sheet • Subtracting from 18, Adding to 18

 Subtract or add.

Complete after page 181.

$$\begin{array}{r} 18 \\ -9 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ -9 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \\ +3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ -3 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ -6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ -4 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ +2 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ +6 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ -4 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ -9 \\ \hline \end{array}$$

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

$$\begin{array}{r} 6 \\ +9 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ -5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ +4 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ -7 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ -4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ +3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ +6 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ -5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ +5 \\ \hline \end{array}$$

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

$$\begin{array}{r} 16 \\ -8 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ -6 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ -5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ +2 \\ \hline \end{array}$$