

Lesson S-5

Preparation: You will need a timer.
Each student will need his or her subtraction student book, a pencil, a red pen, and a blue pen.

Introducing the Lesson:

(Give students their student books. If your students need more practice with the routine for getting ready to do a lesson, use the procedures from the beginning of Lessons 1-3.)

Exercise 1: (Modeling and Guided Practice)

You are ready to start working on the next subtraction lesson. I will be setting the timer each time you do a page. If you finish before the timer rings, you will work on the extra practice sheet. Everybody, what will you do if you finish before the timer rings? (Signal.) *Work on the extra practice sheet.*

We will work the first three problems together on the board. After we do the three problems on the board, I will set the timer and you will solve the problems in your book.

(Write the first three problems on the board.)

9	6		9	2		9	1
4	8		1	9		2	5
-			-			-	

Touch the first problem.) **When we subtract, we make sure the big number is on top.** Everybody, what number is the top number in subtraction? (Signal.) *The big number.*

Each time we subtract in a column, we ask this question: **Is the top number bigger or smaller than the bottom number?** Everybody, what question do we ask? (Signal.) *Is the top number bigger or smaller than the bottom number?*

Example 1:

Everybody, read the first problem. (Signal.) *96 minus 48.*

Let's solve the problem in the ones column. Everybody, read the problem in the ones column. (Signal.) *6 minus 8.*

Everybody, ask the question. (Signal.) *Is the top number bigger or smaller than the bottom number?*

Everybody, what's the answer? (Signal.) *Smaller.*

The top number is smaller, so we borrow a ten from the tens column. Everybody, the top number is smaller so what do we do? (Signal.) *Borrow a ten from the tens column.*

When we borrow a ten from 9 tens, we cross out the 9, and write an 8 in the borrowing box. (Demonstrate this step.)

Next, we write a 1 in front of the 6, to show the borrowed 10. Now we have 16. (Demonstrate this step.)

Everybody, read the new problem in the ones column and say the answer. (Signal.) *16 minus 8 equals 8.* (Write the answer in the ones column.)

Point to the tens column.) Let's solve the new problem in the tens column. Everybody, read the problem in the tens column. (Signal.) *8 minus 4.*

Everybody, what's the answer? (Signal.) *4.* (Write the answer in the tens column.)

Everybody, what does 96 minus 48 equal? (Signal.) *48.*

Example 2:

Everybody, read the second problem. (Signal.) *92 minus 19.*

Let's solve the problem in the ones column. Everybody, read the problem in the ones column. (Signal.) *2 minus 9.*

Everybody, ask the question. (Signal.) *Is the top number bigger or smaller than the bottom number?*

Everybody, what's the answer? (Signal.)
Smaller.

The top number is smaller, so we borrow a ten from the tens column. Everybody, the top number is smaller so what do we do? (Signal.) *Borrow a ten from the tens column.*

When we borrow a ten from 9 tens, we cross out the 9, and write an 8 in the borrowing box. (Demonstrate this step.)

Next, we write a 1 in front of the 2, to show the borrowed 10. Now we have 12. (Demonstrate this step.)

Everybody, read the new problem in the ones column and say the answer. (Signal.) *12 minus 9 equals 3.* (Write the answer in the ones column.)

Point to the tens column.) **Let's solve the problem in the tens column. Everybody, read the problem in the tens column.** (Signal.) *8 minus 1.*

Everybody, what's the answer? (Signal.) *7.* (Write the answer in the tens column.)

Everybody, what does 92 minus 19 equal? (Signal.) *73.*

Example 3:

Everybody, read the third problem. (Signal.) *91 minus 25.*

Let's solve the problem in the ones column. Everybody, read the problem in the ones column. (Signal.) *1 minus 5.*

Everybody, ask the question. (Signal.) *Is the top number bigger or smaller than the bottom number?*

Everybody, what's the answer? (Signal.)
Smaller.

The top number is smaller, so we borrow a ten from the tens column. Everybody, the top number is smaller so what do we do? (Signal.) *Borrow a ten from the tens column.*

When we borrow a ten from 9 tens, we cross out the 9, and write an 8 in the borrowing box. (Demonstrate this step.)

Next, we write a 1 in front of the 1, to show the borrowed 10. Now we have 11. (Demonstrate this step.)

Everybody, read the new problem in the ones column and say the answer. (Signal.) *11 minus 5 equals 6.* (Write the answer in the ones column.)

Point to the tens column.) **Let's solve the problem in the tens column. Everybody, read the problem in the tens column.** (Signal.) *8 minus 2.*

Everybody, what's the answer? (Signal.) *6.* (Write the answer in the tens column.)

Everybody, what does 91 minus 25 equal? (Signal.) *66.*

Exercise 2: (Completing the Worksheet)

Find Lesson S-5. (Check to make sure every student has the correct page.)

You are ready to solve the problems for Lesson S-5. Remember to show your work for each problem.

You have 7 min. to complete this page. When I say, "go!" pick up your pencil and start working.

If you finish before the timer rings, work on Extra Practice Sheet S-5 at the back of your student book. Everybody, what will you do if you finish before the timer rings? (Signal.)
Work on Extra Practice Sheet S-5.

(If students complete Extra Practice Sheet S-5, they may work on any previous extra practice sheets not completed. They must not work ahead; as they may not have the necessary skills to successfully solve the problems independently.)

 Set timer for 7 min.) **Ready.** (Pause.) **Set.**
(Pause.) **Go!**

(Circulate as students work giving encouragement. When the timer rings, have students put their pencils down.

Students need their red pens for marking. Make sure all students have their pencils and blue pens at home base.

Use the following procedure for marking:)

We will say each problem and the answer two times. If an answer is incorrect or not done, circle it. Everybody, what will you do if an answer is incorrect or not done? (Signal.)
Circle it. Yes, circle it.

You will go back later to fix answers that are incorrect with your blue pen. Everybody, when will you fix incorrect answers? (Signal.)
Later.

96 minus 48 equals 48. Everybody, what does 96 minus 48 equal? (Signal.) 48. (Repeat procedure for remaining problems on the page. Have students write the number of problems they have correct in the box at the top of the page.

Have students record their percent of correct problems on the chart that is inside the front cover of the student book.

 Set the timer for 5 min. for corrections. Circulate and mark corrections. Write a star or your initials at the top of the page when all corrections are complete. Students who are finished with corrections should work on Extra Practice Sheet S-5, and then any previous extra practice sheets not completed.)



S-5

$$\begin{array}{r} \square \\ 96 \\ - 48 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ 92 \\ - 19 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ 91 \\ - 25 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ 14 \\ - \square 9 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ 67 \\ - 43 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ 92 \\ - \square 5 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ 60 \\ - 19 \\ \hline \square \end{array}$$

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

$$\begin{array}{r} \square \\ 95 \\ - 32 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ 46 \\ - 37 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ 16 \\ - \square 3 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ 56 \\ - 28 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ 56 \\ - 39 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ 30 \\ - 15 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ 52 \\ - 35 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ 74 \\ - 18 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ 84 \\ - 66 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ 72 \\ - 55 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ 96 \\ - 26 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ 65 \\ - 13 \\ \hline \square \end{array}$$

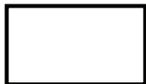
$$\begin{array}{r} \square \\ 90 \\ - 25 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ 83 \\ - \square 4 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ 58 \\ - 29 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ 60 \\ - 57 \\ \hline \square \end{array}$$

$$\begin{array}{r} \square \\ 89 \\ - 77 \\ \hline \square \end{array}$$



Extra Practice S-5

$$\begin{array}{r} \square \\ 67 \\ - 28 \\ \hline \square \\ \square \end{array}$$

$$\begin{array}{r} \square \\ 91 \\ - 83 \\ \hline \square \\ \square \end{array}$$

$$\begin{array}{r} \square \\ 55 \\ - 28 \\ \hline \square \\ \square \end{array}$$

$$\begin{array}{r} \square \\ 93 \\ - \square 9 \\ \hline \square \\ \square \end{array}$$

$$\begin{array}{r} \square \\ 42 \\ - 35 \\ \hline \square \\ \square \end{array}$$

$$\begin{array}{r} \square \\ 71 \\ - \square 5 \\ \hline \square \\ \square \end{array}$$

$$\begin{array}{r} \square \\ 47 \\ - 23 \\ \hline \square \\ \square \end{array}$$

$$\begin{array}{r} \square \\ 32 \\ - \square 7 \\ \hline \square \\ \square \end{array}$$

$$\begin{array}{r} \square \\ 85 \\ - 77 \\ \hline \square \\ \square \end{array}$$

$$\begin{array}{r} \square \\ 72 \\ - 23 \\ \hline \square \\ \square \end{array}$$

$$\begin{array}{r} \square \\ 31 \\ - 17 \\ \hline \square \\ \square \end{array}$$

$$\begin{array}{r} \square \\ 70 \\ - 68 \\ \hline \square \\ \square \end{array}$$

$$\begin{array}{r} \square \\ 61 \\ - 52 \\ \hline \square \\ \square \end{array}$$

$$\begin{array}{r} \square \\ 52 \\ - 25 \\ \hline \square \\ \square \end{array}$$

$$\begin{array}{r} \square \\ 42 \\ - 36 \\ \hline \square \\ \square \end{array}$$

$$\begin{array}{r} \square \\ 63 \\ - 34 \\ \hline \square \\ \square \end{array}$$

$$\begin{array}{r} \square \\ 92 \\ - 53 \\ \hline \square \\ \square \end{array}$$

$$\begin{array}{r} \square \\ 65 \\ - 14 \\ \hline \square \\ \square \end{array}$$

$$\begin{array}{r} \square \\ 31 \\ - 15 \\ \hline \square \\ \square \end{array}$$

$$\begin{array}{r} \square \\ 80 \\ - 32 \\ \hline \square \\ \square \end{array}$$

Challenge Questions: Watch Your Signs!

$$\begin{array}{r} \square \\ 67 \\ + 24 \\ \hline \square \\ \square \end{array}$$

$$\begin{array}{r} \square \\ 25 \\ + \square 4 \\ \hline \square \\ \square \end{array}$$

$$\begin{array}{r} \square \\ 58 \\ + 19 \\ \hline \square \\ \square \end{array}$$

$$\begin{array}{r} \square \\ 45 \\ + 17 \\ \hline \square \\ \square \end{array}$$

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