

Student Activity Book

**Subtraction on Recording Sheets
(SAB pp. 461–462)
Questions A–H**

A.

10s	1s
6	9
- 2	5
4	4

B.

10s	1s
7	5
- 3	2
4	3

C.

10s	1s
3	12
- 1	8
2	4

D.

100s	10s	1s
3	8	15
- 1	1	8
2	7	7

E.

10s	1s
6	16
- 2	9
4	7

F.

10s	1s
2	15
- 1	6
1	9

G.

100s	10s	1s
1	12	9
- 1	9	1
	3	8

H.

100s	10s	1s
2	6	14
-	4	7
2	2	7

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Subtraction on Recording Sheets

Solve the problems. Think of base-ten pieces as you record your trades.

A.

10s	1s
6	9
- 2	5

B.

10s	1s
7	5
- 3	2

C.

10s	1s
4	2
- 1	8

D.

100s	10s	1s
3	9	5
- 1	1	8

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Student Activity Book - Page 461

Name _____ Date _____

E.

10s	1s
7	6
- 2	9

F.

10s	1s
3	5
- 1	6

G.

100s	10s	1s
2	2	9
- 1	9	1

H.

100s	10s	1s
2	7	4
-	4	7

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Student Activity Book - Page 462

Name _____ Date _____

Compact Subtraction

Show how to use the compact method to solve each problem. Look to see if your answers are reasonable.

A.
$$\begin{array}{r} 89 \\ - 34 \\ \hline \end{array}$$
 B.
$$\begin{array}{r} 34 \\ - 26 \\ \hline \end{array}$$

C.
$$\begin{array}{r} 73 \\ - 58 \\ \hline \end{array}$$
 D.
$$\begin{array}{r} 67 \\ - 22 \\ \hline \end{array}$$

E.
$$\begin{array}{r} 45 \\ - 29 \\ \hline \end{array}$$
 F.
$$\begin{array}{r} 253 \\ - 126 \\ \hline \end{array}$$

G. Explain how you know your answer to Question F is reasonable.

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Student Activity Book - Page 463

Name _____ Date _____

Check with Addition

1. John solved a few subtraction problems but made some mistakes. Use addition to check his answers. If an answer is wrong, rewrite the problem and solve it correctly. Check with addition.

A.
$$\begin{array}{r} 73 \\ - 25 \\ \hline 48 \end{array}$$

B.
$$\begin{array}{r} 62 \\ - 35 \\ \hline 33 \end{array}$$

2. Solve each problem. Check with addition.

A.
$$\begin{array}{r} 98 \\ - 35 \\ \hline \end{array}$$

B.
$$\begin{array}{r} 76 \\ - 47 \\ \hline \end{array}$$

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Student Activity Book - Page 465

Compact Subtraction (SAB p. 463)

Questions A–G

A.
$$\begin{array}{r} 89 \\ - 34 \\ \hline 55 \end{array}$$

B.
$$\begin{array}{r} 2\ 14 \\ \cancel{2}\cancel{4} \\ - 26 \\ \hline 8 \end{array}$$

C.
$$\begin{array}{r} 6\ 13 \\ \cancel{7}\cancel{3} \\ - 58 \\ \hline 15 \end{array}$$

D.
$$\begin{array}{r} 67 \\ - 22 \\ \hline 45 \end{array}$$

E.
$$\begin{array}{r} 3\ 15 \\ \cancel{4}\cancel{5} \\ - 29 \\ \hline 16 \end{array}$$

F.
$$\begin{array}{r} 4\ 13 \\ \cancel{2}\cancel{3} \\ - 126 \\ \hline 127 \end{array}$$

G. Explanations will vary. Possible responses: I thought of money. \$2.00 – \$1.00 is \$1.00 and 50¢ – 25¢ = 25¢, so 127 is reasonable.

Check with Addition (SAB p. 465)

Questions 1–2

1. A.
$$\begin{array}{r} 1 \\ 25 \\ + 48 \\ \hline 73 \end{array}$$
 correct

B.
$$\begin{array}{r} 35 \\ + 33 \\ \hline 68 \end{array}$$
 incorrect

$$\begin{array}{r} 5\ 12 \\ \cancel{6}\cancel{2} \\ - 35 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 1 \\ 35 \\ + 27 \\ \hline 62 \end{array}$$
 correct

2. A.
$$\begin{array}{r} 98 \\ - 35 \\ \hline 63 \end{array}$$

$$\begin{array}{r} 35 \\ + 63 \\ \hline 98 \end{array}$$

B.
$$\begin{array}{r} 6\ 16 \\ \cancel{7}\cancel{6} \\ - 47 \\ \hline 29 \end{array}$$

$$\begin{array}{r} 1 \\ 47 \\ + 29 \\ \hline 76 \end{array}$$

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Subtraction My Way (SAB p. 467)

Questions 1–2

1. A.
$$\begin{array}{r} 712 \\ \cancel{82} \\ - 47 \\ \hline 35 \end{array}$$

B. Answers will vary. Possible response: I used friendly numbers.

82 is close to 80

47 is close to 50

$80 - 50 = 30$

So my answer of 35 is reasonable.

2. Solution strategies will vary. Possible responses:

First Way	Second Way
$\begin{array}{r} 515 \\ \cancel{68} \\ - 28 \\ \hline 37 \end{array}$	

Name _____ Date _____

Subtraction My Way

1. A. Solve:
$$\begin{array}{r} 82 \\ - 47 \\ \hline \end{array}$$

B. Explain how you know your answer is reasonable.

2. Solve the problem two ways.

$\begin{array}{r} 65 \\ - 28 \\ \hline \end{array}$	<table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; text-align: center;">First Way</th> <th style="width: 50%; text-align: center;">Second Way</th> </tr> <tr> <td style="height: 100px;"></td> <td style="height: 100px;"></td> </tr> </table>	First Way	Second Way			<table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; text-align: center;">First Way</th> <th style="width: 50%; text-align: center;">Second Way</th> </tr> <tr> <td style="height: 100px;"></td> <td style="height: 100px;"></td> </tr> </table>	First Way	Second Way		
First Way	Second Way									
First Way	Second Way									

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Paper-and-Pencil Subtraction: Compact Method SAB • Grade 2 • Unit 9 • Lesson 6 467

Student Activity Book - Page 467

Date _____

Use Subtraction Strategies Feedback Box	Expectation	Check In	Comments
Use and apply place value concepts to make connections between subtraction problems by expanding using base-ten pieces and standard form. [Q# 2, 4, 7]	E1		
Subtract multidigit numbers using mental math strategies such as expanded form, number lines, a 200 Chart, and base-ten pieces. [Q# 2–3, 5]	E3		
Solve multidigit numbers using paper-and-pencil methods: <ul style="list-style-type: none"> • expanded form [Q# 4] • compact [Q# 6] 	E4		
Estimate differences using friendly numbers. [Q# 1]	E5		


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Make Connections with Subtraction SAB • Grade 2 • Unit 9 • Lesson 7 477


Student Activity Book - Page 477

Name _____ Date _____

Record Your Subtraction

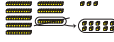


Maria wanted to solve $83 - 54$ with base-ten pieces and a recording sheet. She displays 8 skinnies and 3 bits.




Maria's work

10s	1s
8	3
- 5	4
3	9



10s	1s
8 7	3 13
- 5	4
2	9



10s	1s
8 7	3 13
- 5	4
2	9

1. Show and tell a family member how Maria recorded that she traded one skinny for ten bits.

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Teacher Guide

**Record Your Subtraction (TG pp. 1–2)
Homework**

Questions 1–2

- Possible explanation: She showed the trade by crossing out the 8 in the tens column, and writing 7 tens. She also crossed out the 3 in the ones column and wrote 13 ones.

2. **A.**

10s	1s
3	9
- 2	4
1	5

B.

10s	1s
6 7	13 3
- 4	5
2	8

C.

10s	1s
4 5	12 2
- 2	9
2	3

D.

10s	1s
8	7
- 2	6
6	1

E.

10s	1s
7 8	16 6
- 4	8
3	8

F.

100s	10s	1s
2 1	4 5	14 4
- 1	1	6
1	3	8

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Teacher Guide - Page 1

Name _____ Date _____

2. Solve these problems Maria's way. Think of base-ten pieces as you record your trades.

A.

10s	1s
3	9
- 2	4
1	5

B.

10s	1s
7	3
- 4	5
3	8

C.

10s	1s
5	2
- 2	9
3	11

D.

10s	1s
8	7
- 2	6
6	1

E.

10s	1s
8	6
- 4	8
4	8

F.

100s	10s	1s
2	5	4
- 1	1	6
1	6	0

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Teacher Guide - Page 2

**Practice Compact Subtraction (TG)
Homework
Questions A–G**

A.
$$\begin{array}{r} 86 \\ - 42 \\ \hline 44 \end{array}$$

B.
$$\begin{array}{r} 416 \\ \del{88} \\ - 39 \\ \hline 17 \end{array}$$

C.
$$\begin{array}{r} 615 \\ \del{78} \\ - 48 \\ \hline 27 \end{array}$$

D.
$$\begin{array}{r} 57 \\ - 23 \\ \hline 34 \end{array}$$


E.
$$\begin{array}{r} 413 \\ \del{88} \\ - 49 \\ \hline 4 \end{array}$$

F.
$$\begin{array}{r} 714 \\ \del{288} \\ - 175 \\ \hline 109 \end{array}$$

- G. Possible way: I can make a jump of 100 on the number line to get 275. Then I can make 9 jumps of one to get to 284.

Name _____ Date _____

Practice Compact Subtraction

 **Homework**

Solve these problems:

A.
$$\begin{array}{r} 86 \\ - 42 \\ \hline \end{array}$$

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

C.
$$\begin{array}{r} 75 \\ - 48 \\ \hline \end{array}$$

D.
$$\begin{array}{r} 57 \\ - 23 \\ \hline \end{array}$$

E.
$$\begin{array}{r} 53 \\ - 49 \\ \hline \end{array}$$

F.
$$\begin{array}{r} 284 \\ - 175 \\ \hline \end{array}$$

G. Explain a way to do Question F in your head.


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Teacher Guide

Name _____ Date _____

Check Subtraction with Addition

 **Homework**

Dear Family Member:

In this homework students will practice using addition to check subtraction problems. If you subtract something and then add it back, you should get what you started with. For example, $25 - 7 = 18$. Adding 7 back to 18 gives you 25, the number you started with. If you had gotten something else, you would know there was a mistake. Please help your child use addition to check subtraction problems.

Thank you.

1. John solved a subtraction problem. Then he added his answer to the number he subtracted. He knew he made a mistake. How did he know that?

John's solution:

$$\begin{array}{r} 72 \\ - 43 \\ \hline 31 \end{array}$$

John's check:

$$\begin{array}{r} 31 \\ + 43 \\ \hline 74 \end{array}$$

2. John solved another problem. He checked it with addition. Use his addition to decide whether his answer is correct. How do you know?

John's solution:

$$\begin{array}{r} 97 \\ - 62 \\ \hline 35 \end{array}$$

John's check:

$$\begin{array}{r} 35 \\ + 62 \\ \hline 97 \end{array}$$

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Homework Master

TG • Grade 2 • Unit 9 • Lesson 6 |

Teacher Guide - Page 1

Name _____ Date _____

3. John solved some more subtraction problems. Check his answers with addition. If an answer is wrong, rewrite the subtraction problem and find the correct answer. Check with addition.

A.

$$\begin{array}{r} 56 \\ - 13 \\ \hline 43 \end{array}$$

B.

$$\begin{array}{r} 82 \\ - 59 \\ \hline 35 \end{array}$$

4. Solve each problem. Check with addition.

A.

$$\begin{array}{r} 57 \\ - 32 \\ \hline \end{array}$$

B.

$$\begin{array}{r} 332 \\ - 118 \\ \hline \end{array}$$

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2 TG • Grade 2 • Unit 9 • Lesson 6

Homework Master

Teacher Guide - Page 2

Check Subtraction with Addition

(TG pp. 1–2)

Homework

Questions 1–4

- Answers will vary. Possible response: John knew he made a mistake because the answer to his addition problem did not match the number he started with.
- Yes, his answer is correct because the sum of his addition problem is the same as the number he started with.

3. A. $\begin{array}{r} 13 \\ + 43 \\ \hline 56 \end{array}$ He was correct.

B. $\begin{array}{r} 1 \\ 59 \\ + 35 \\ \hline 94 \end{array}$ He was not correct.

$$\begin{array}{r} 712 \\ - 82 \\ \hline 59 \end{array} \qquad \begin{array}{r} 1 \\ 59 \\ + 23 \\ \hline 82 \end{array}$$

4. A. $\begin{array}{r} 57 \\ - 32 \\ \hline 25 \end{array} \qquad \begin{array}{r} 32 \\ + 25 \\ \hline 57 \end{array}$

B. $\begin{array}{r} 212 \\ 3\cancel{2} \\ - 118 \\ \hline 214 \end{array} \qquad \begin{array}{r} 1 \\ 1\cancel{8} \\ + 214 \\ \hline 332 \end{array}$

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