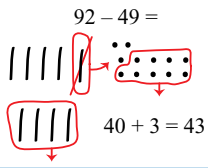
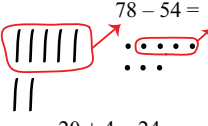
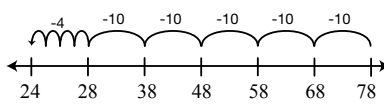
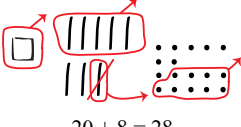


Student Activity Book

Solve it Three Ways (SAB pp. 469–470)

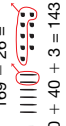
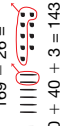
Questions 1–3

Base-Ten Pieces	Expanded Form	Compact Method	Check It
<p>1. Record your answer in base-ten shorthand.</p> $92 - 49 =$  $40 + 3 = 43$	$92 = 90 + 2 = 80 + 12$ $49 = 40 + 9 = 40 + 9$ $40 + 3 = 43$	$\begin{array}{r} 8\ 12 \\ 92 \\ -49 \\ \hline 43 \end{array}$	<p>Possible response: I used friendly numbers. $90 - 50 = 40$ and then I added 3 to get 43.</p>
<p>2. Record your answer in base-ten shorthand.</p> $78 - 54 =$  $20 + 4 = 24$	$78 = 70 + 8$ $54 = 50 + 4$ $20 + 4 = 24$	$\begin{array}{r} 78 \\ -54 \\ \hline 24 \end{array}$	<p>Possible response:</p> 
<p>3. Record your answer in base-ten shorthand.</p> $187 - 159 =$  $20 + 8 = 28$	$187 = 100 + 80 + 7 = 100 + 70 + 17$ $159 = 100 + 50 + 9 = 100 + 50 + 9$ $0 + 20 + 8 = 28$	$\begin{array}{r} 7\ 17 \\ 187 \\ -159 \\ \hline 28 \end{array}$	$159 + 1 = 160$ $160 + 20 = 180$ $180 + 7 = 187$ $1 + 20 + 7 = 28$

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Solve it Three Ways



Solve a problem three ways. Check your answer by solving it another way or by using addition. The first row is an example.

Base-Ten Pieces	Expanded Form	Compact Method	Check It
<p>Ex. Record your answer in base-ten shorthand.</p>  $100 - 40 + 3 = 143$	$169 = 100 + 60 + 9$ $26 = 20 + 6$ $100 + 40 + 3 = 143$	$\begin{array}{r} 169 \\ -26 \\ \hline 143 \end{array}$	$\begin{array}{r} 169 \\ +26 \\ \hline 195 \end{array}$
<p>1. Record your answer in base-ten shorthand.</p> $92 - 49 =$  $92 - 49 =$	$92 = 90 + 2 = 80 + 12$ $49 = 40 + 9 = 40 + 9$ $80 + 3 = 83$	$\begin{array}{r} 92 \\ -49 \\ \hline 43 \end{array}$	$\begin{array}{r} 43 \\ +49 \\ \hline 92 \end{array}$

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Make Connections with Subtraction SAB • Grade 2 • Unit 9 • Lesson 7 469

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Base-Ten Pieces	Expanded Form	Compact Method	Check It
<p>2. Record your answer in base-ten shorthand.</p> $78 - 54 =$  $78 - 54 =$	$78 = 70 + 8$ $54 = 50 + 4$ $20 + 4 = 24$	$\begin{array}{r} 78 \\ -54 \\ \hline 24 \end{array}$	$\begin{array}{r} 24 \\ +54 \\ \hline 78 \end{array}$
<p>3. Record your answer in base-ten shorthand.</p> $187 - 159 =$  $187 - 159 =$	$187 = 100 + 80 + 7 = 100 + 70 + 17$ $159 = 100 + 50 + 9 = 100 + 50 + 9$ $0 + 20 + 8 = 28$	$\begin{array}{r} 187 \\ -159 \\ \hline 28 \end{array}$	$\begin{array}{r} 28 \\ +159 \\ \hline 187 \end{array}$

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Fix It (SAB pp. 471–472)

Questions A–F

* See Part 2 of Lesson 7 for a description of the mistakes in each question.

A. $80 = 80 + 0 = 70 + 10$
 $56 = 50 + 6 = 50 + 6$
 $20 + 4 = 24$

B. $\begin{array}{r} 89 \\ - 52 \\ \hline 37 \end{array}$

C. $165 = 100 + 60 + 5 = 160 + 5$
 $71 = 70 + 1 = 70 + 1$
 $90 + 4 = 94$

D. $\begin{array}{r} 713 \\ 183 \\ - 35 \\ \hline 148 \end{array}$


E. $\begin{array}{r} 514 \\ 264 \\ - 128 \\ \hline 136 \end{array}$

F. $\begin{array}{r} 813 \\ 93 \\ - 27 \\ \hline 66 \end{array}$

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Fix It



Tell your partner what went wrong here.	Estimate, then solve it correctly.
<p>A. $80 - 56 =$ $80 = 80 + 0$ $56 = 50 + 6$ $30 - 6 = 36$</p> 	<p>$80 - 56 =$ $80 =$ $56 =$ Estimate:</p>
<p>B. $\begin{array}{r} 719 \\ 89 \\ - 52 \\ \hline 217 \end{array}$</p>	<p>$\begin{array}{r} 89 \\ - 52 \\ \hline \end{array}$ Estimate:</p>
<p>C. $165 - 71 =$ $165 = 100 + 60 + 5$ $71 = 70 + 10$ $30 + 59 + 5 = 85$</p>	<p>$165 - 71 =$ $165 =$ $71 =$ Estimate:</p>

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Tell your partner what went wrong here.	Estimate, then solve it correctly.
<p>D. $\begin{array}{r} 18 \\ 01813 \\ 183 \\ - 35 \\ \hline 158 \end{array}$</p> 	<p>$\begin{array}{r} 183 \\ - 35 \\ \hline \end{array}$ Estimate:</p>
<p>E. $\begin{array}{r} 1614 \\ 264 \\ - 128 \\ \hline 1146 \end{array}$</p> 	<p>$\begin{array}{r} 264 \\ - 128 \\ \hline \end{array}$ Estimate:</p>
<p>F. $\begin{array}{r} 810 \\ 93 \\ - 27 \\ \hline 63 \end{array}$</p>	<p>$\begin{array}{r} 93 \\ - 27 \\ \hline \end{array}$ Estimate:</p>

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* Answers and/or discussion are included in the lesson.

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Use Subtraction Strategies

Use the strategy listed to solve each problem. Look at the *Subtraction Strategies Menu* for examples.

<p style="text-align: center;">Finding Friendly Numbers</p> <p>1. Estimate $194 - 105$.</p>	<p style="text-align: center;">Using Base-Ten Pieces</p> <p>2. Solve $249 - 153$. Use base-ten shorthand to draw your answer.</p>
<p style="text-align: center;">Counting Up</p> <p>3. Solve $212 - 197$.</p>	<p style="text-align: center;">Using Expanded Form</p> <p>4. Solve $185 - 62$.</p>

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<p style="text-align: center;">Counting Back</p> <p>5. Solve $182 - 56$.</p>	<p style="text-align: center;">Using the Compact Method</p> <p>6. $\begin{array}{r} 73 \\ - 45 \\ \hline \end{array}$</p>
--	---

7. A. In Question 6, how did you show that you made a trade?

B. Use base-ten shorthand to show how to solve $73 - 45$. Does this answer match your answer in Question 6?

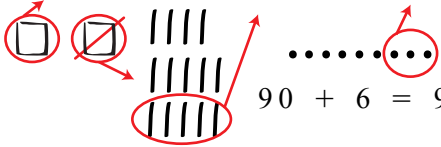
C. Explain any trades you made with the base-ten pieces.

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Use Subtraction Strategies (SAB pp. 475–476) Questions 1–7

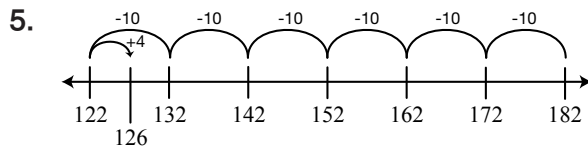
1. Possible response: $200 - 100 = 100$

2.  $90 + 6 = 96$

3. Possible response: $197 + 3 + 10 + 2 = 212$, so $212 - 197 = 15$.

4. $185 = 100 + 80 + 5$

$$\begin{array}{r} 62 = \quad 60 + 2 \\ \hline 100 + 20 + 3 = 123 \end{array}$$



6.
$$\begin{array}{r} 6\ 13 \\ - 45 \\ \hline 28 \end{array}$$

7. A. Possible response: I crossed out the 7 and wrote 6 to show I traded a ten for ten ones. I added ten ones to the 3, so I crossed it out and wrote 13.

B. 

My answer matches the answer I got in Question 6.

C. I traded one skinny for ten bits.

Teacher Guide

Choose Which Way to Subtract
 (TG pp. 1–2)
Homework
Questions A–E

Estimates will vary. Paper-and-pencil methods will vary. Both methods are shown below.

A. $79 = 70 + 9$
 $24 = 20 + 4$
 $50 + 5 = 55$

$$\begin{array}{r} 79 \\ - 24 \\ \hline 55 \end{array}$$

B. $66 = 60 + 6 = 50 + 16$
 $37 = 30 + 7 = 30 + 7$
 $20 + 9 = 29$

$$\begin{array}{r} 5\ 16 \\ \cancel{66} \\ - 37 \\ \hline 29 \end{array}$$

C. $159 = 100 + 50 + 9$
 $125 = 100 + 20 + 5$
 $30 + 4 = 34$

$$\begin{array}{r} 159 \\ - 125 \\ \hline 34 \end{array}$$

D. $172 = 100 + 70 + 2 = 100 + 60 + 12$
 $137 = 100 + 30 + 7 = 100 + 30 + 7$
 $30 + 5 = 35$

$$\begin{array}{r} 6\ 12 \\ \cancel{172} \\ - 137 \\ \hline 35 \end{array}$$

E. Estimation strategies will vary.

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Choose Which Way to Subtract

Homework

Dear Family Member:
 After your child has completed these problems, ask him or her to choose one problem and explain the steps taken to solve it.
 Thank you.

Paper-and-Pencil Ways to Subtract

Expanded Form	Compact
$75 = 70 + 5 = 60 + 15$	$\begin{array}{r} 75 \\ - 28 \\ \hline 47 \end{array}$
$28 = 20 + 8 = 20 + 8$	$\begin{array}{r} 28 \\ - 28 \\ \hline 47 \end{array}$
$40 + 7 = 47$	

Solve each problem using a paper-and-pencil way. Choose each way at least once. Estimate first to make sure your answer is reasonable.

A. $79 - 24 =$

Estimate:

B. $66 - 37 =$

Estimate:

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C. $159 - 125 =$

Estimate:

D. $172 - 137 =$

Estimate:

E. Choose one problem. Show how you estimated to check the reasonableness of your answer.

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