

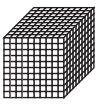



# Strategies to Subtract

## Using Base-Ten Pieces



### Self-Check: Question 1

1. Solve  $243 - 163$  using base-ten pieces. Record your work with base-ten shorthand and the recording sheet.

 1000s	 100s	 10s	 1s	Number Sentences





Use the Workshop Menu below to choose practice with using base-ten pieces to subtract.

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



Workshop Menu			
<b>Can I Do This?</b>	<b>▲ Working On It!</b>  I could use some extra help.	<b>● Getting It!</b>  I just need some more practice.	<b>■ Got It!</b>  I'm ready for a challenge.
Use the base-ten pieces to subtract.	Questions 2–4, 8–9	Questions 4–9	Questions 4, 6–9

**Solve using base-ten pieces. Record your work with base-ten shorthand and the recording sheet.**





**2.**  $98 - 54$

 1000s	 100s	 10s	 1s	Number Sentences





**3.**  $62 - 28$

 1000s	 100s	 10s	 1s	Number Sentences





**4.**  $154 - 28$

 1000s	 100s	 10s	 1s	Number Sentences





5.  $\begin{array}{r} 2445 \\ - 1238 \\ \hline \end{array}$

 1000s	 100s	 10s	 1s	Number Sentences

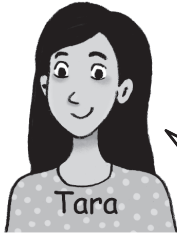
6.  $\begin{array}{r} 1456 \\ - 388 \\ \hline \end{array}$

 1000s	 100s	 10s	 1s	Number Sentences

7.  $2486 - 1587$

 1000s	 100s	 10s	 1s	Number Sentences





**8.** Look at Tara's solution to  $354 - 168$ .



This is a lot like using base-ten pieces or shorthand.

$$\begin{array}{r}
 354 = 300 + 50 + 4 = 200 + 140 + 14 \\
 168 = 100 + 60 + 8 = 100 + 60 + 8 \\
 \hline
 100 + 80 + 6 = 186
 \end{array}$$

**A.** Show how to solve  $354 - 168$  with base-ten shorthand and a base-ten recording sheet.

 1000s	 100s	 10s	 1s	Number Sentences

**B.** Do you agree with Tara? Why or why not?

**9.** Choose problems from Questions 1–7 to solve using expanded form. Show your work below.

## Using Mental Math Strategies



### Self-Check: Questions 10–11




**10.** Use a mental math strategy to solve  $205 - 75$ . Explain your strategy.

**11.** Use a number line to show how to solve  $326 - 27$ .




Use the Workshop Menu to choose practice with using mental math strategies to subtract.


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Workshop Menu			
<b>Can I Do This?</b>	<b>▲ Working On It!</b> I could use some extra help.  Roberto	<b>● Getting It!</b> I just need some more practice.  Michael	<b>■ Got It!</b> I'm ready for a challenge.  Lee Yah
	Use mental math strategies to subtract.	<b>Questions 12–14, 15E–G</b>	<b>Questions 13–15</b>


**12.** Mrs. Hunter challenged the class to use a mental math strategy to solve each of the problems below. Grace and her classmates recorded their mental math strategies. Solve the problem next to each one using a similar strategy. Explain your thinking to your partner.

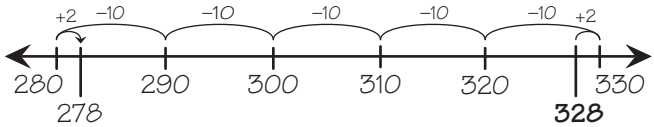
  $341 - 99 =$   
 “99 is close to 100.  
 $341 - 100 = 241$ . I took away 1 too many, so I added it back in.  
 $241 + 1 = 242$ .”

**A.**  $132 - 98 =$


$157 - 25 =$   
 “I thought about money.”  
 $150 - 25 = 125 + 7 = 132$  

**B.**  $504 - 175 =$


  $328 - 50 =$   
 “I made notes, but I pictured the number line and counted back. I started at 328, hopped +2 to 330. Then -10 five times and landed on 280. Then I hopped +2 to 278.”

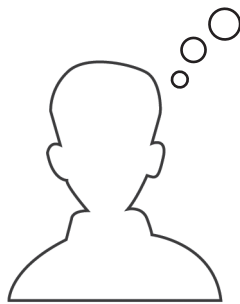



**C.**  $352 - 98 =$

$220 - 160 =$   
 “I counted up.”  
 $160 + 40 = 200$   
 $200 + 20 = 220$   
 $40 + 20 = 60$  

**D.**  $320 - 250 =$

-  **13.** Use a mental math strategy to solve  $1400 - 1198$ . Explain your strategy to your partner. Make some notes to record your partner's strategy below. Include your partner's name.



-  **14.** Use a mental math strategy to solve  $756 - 75$ . Explain your strategy to your partner. Make some notes to record your partner's strategy below. Include your partner's name.



**15.** Solve the following problems using a mental math strategy. Record your answer and explain your strategy to your partner. You do **not** need to write your strategy down, but you can jot down some notes.

**A.**  $350 - 125 =$

**B.**  $604 - 498 =$

**C.**  $997 - 203 =$

**D.**  $825 - 427 =$

**E.**  $747 - 297 =$

**F.**  $1002 - 997 =$

**G.** Show how you solved one of the problems above by describing your strategy in the thought bubble below.





## Using Different Methods






### Self-Check: Question 16

Use the *Subtraction Strategies Menu* in the *Student Guide* Reference section.

**16.** Solve  $43 - 27$  using three different strategies or methods.

Use the Workshop menu to choose practice with subtraction methods.

Workshop Menu			
Can I Do This?	▲ Working On It!	● Getting It!	■ Got It!
	 <p>I could use some extra help.</p> <p>Nicholas</p>	 <p>I just need some more practice.</p> <p>Jacob</p>	 <p>I'm ready for a challenge.</p> <p>Ana</p>
Use different methods to subtract.	<p><b>Questions 17–20</b></p> <p>Use each of these methods at least once:</p> <ul style="list-style-type: none"> <li>• base-ten pieces</li> <li>• expanded form</li> </ul>	<p><b>Questions 20–21</b></p> <p>Use each of these methods at least once:</p> <ul style="list-style-type: none"> <li>• base-ten pieces</li> <li>• expanded form</li> <li>• compact method</li> </ul>	<p><b>Questions 20–21</b></p> <p>Use each of these methods at least once:</p> <ul style="list-style-type: none"> <li>• expanded form</li> <li>• compact method</li> </ul>

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**▲** **17.** Here is how Sam solved  
235 – 126.

	100s	10s	1s
235	2	3	5
- 126	2	2	15
-----	1	0	9

Use the same method to solve  
353 – 235.

	100s	10s	1s
353			
- 235			
-----			

**▲** **18.** Here is how Maya solved  
364 – 247.

$$364 = 300 + 60 + 4 = 300 + 50 + 14$$

$$247 = 200 + 40 + 7 = 200 + 40 + 7$$


---


$$100 + 10 + 7 = 117$$


Use the same method to solve  
327 – 172.


**▲** **19.** Here is how Josh solved  
476 – 329.

$$\begin{array}{r} \overset{6}{\overset{16}{476}} \\ + 329 \\ \hline 147 \end{array}$$

Use the same method to solve  
847 – 278.


Name \_\_\_\_\_ Date \_\_\_\_\_

 **20.** Choose your own strategies and methods to solve the following problems. Use the *Subtraction Strategies Menu*.

**A.**  $137 - 68$

**B.** 
$$\begin{array}{r} 166 \\ - 46 \\ \hline \end{array}$$

**C.**  $542 - 474$

**D.**  $446 - 210$

**E.**  $232 - 124$

**F.** 
$$\begin{array}{r} 7442 \\ - 3256 \\ \hline \end{array}$$

**G.** 
$$\begin{array}{r} 202 \\ - 150 \\ \hline \end{array}$$

**H.**  $2551 - 1450$

**21.** • Using the *Subtraction Strategies Menu* as a guide, show how to solve each problem using two different strategies. Compare your strategies. Circle the one you like best.

- Use a mental math strategy at least three times.
- Use each paper-and-pencil strategy at least once.

One Strategy	Another Strategy
<b>A.</b> $427 - 325 =$	
<b>B.</b> $400 - 298 =$	
<b>C.</b> $\begin{array}{r} 675 \\ - 598 \\ \hline \end{array}$	
<b>D.</b> $\begin{array}{r} 460 \\ - 356 \\ \hline \end{array}$	

Did you try all of the strategies on the *Subtraction Strategies Menu*?