


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

**Add with Base-Ten Pieces**

Solve the following problems with base-ten pieces. Use base-ten shorthand or a drawing to show how you solved each problem and write a number sentence. Estimate to check if your answer is reasonable.

Problem	Drawing or Base-ten Shorthand and Number Sentence	Estimate
<b>Ex.</b> $\begin{array}{r} 57 \\ + 26 \\ \hline 83 \end{array}$	 Number sentence $50 + 20 + 7 + 6 = 83$	$\begin{array}{r} 60 \\ - 6 \\ \hline 54 \\ + 26 \\ \hline 80 \end{array}$
1.	$\begin{array}{r} 35 \\ + 13 \\ \hline \end{array}$ Number sentence _____	
2.	$\begin{array}{r} 64 \\ + 31 \\ \hline 95 \end{array}$ Number sentence _____	




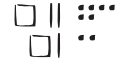


Exploring with Base-Ten Pieces SAB • Grade 2 • Unit 7 • Lesson 4 **335**

**Student Activity Book - Page 335**

**Student Activity Book**

**Add with Base-Ten Pieces**  
(SAB pp. 335–336)

**Questions 1–6**

Problem	Drawing or Base-ten Shorthand and Number Sentence	Estimate
<b>1.</b> $\begin{array}{r} 35 \\ + 13 \\ \hline 48 \end{array}$	 Number sentence $30 + 10 + 5 + 3 = 48$	$\begin{array}{r} 35 \\ - 40 \\ \hline -5 \\ + 13 \\ \hline 10 \\ + 38 \\ \hline 48 \end{array}$
<b>2.</b> $\begin{array}{r} 64 \\ + 31 \\ \hline 95 \end{array}$	 Number sentence $60 + 30 + 4 + 1 = 95$	$\begin{array}{r} 64 \\ - 60 \\ \hline 4 \\ + 31 \\ \hline 35 \\ + 60 \\ \hline 95 \end{array}$
<b>3.</b> $\begin{array}{r} 26 \\ + 52 \\ \hline 78 \end{array}$	 Number sentence $20 + 50 + 6 + 2 = 78$	$\begin{array}{r} 26 \\ - 30 \\ \hline -4 \\ + 52 \\ \hline 48 \\ + 30 \\ \hline 78 \end{array}$
<b>4.</b> $\begin{array}{r} 127 \\ + 112 \\ \hline 239 \end{array}$	 Number sentence $200 + 20 + 10 + 7 + 2 = 239$	$\begin{array}{r} 127 \\ - 130 \\ \hline -3 \\ + 112 \\ \hline 79 \\ + 210 \\ \hline 289 \end{array}$
<b>5.</b> $\begin{array}{r} 153 \\ + 24 \\ \hline 177 \end{array}$	 Number sentence $100 + 50 + 20 + 3 + 4 = 177$	$\begin{array}{r} 153 \\ - 150 \\ \hline 3 \\ + 24 \\ \hline 27 \\ + 150 \\ \hline 177 \end{array}$
<b>6.</b> $\begin{array}{r} 241 \\ + 136 \\ \hline 377 \end{array}$	 Number sentence $200 + 100 + 40 + 30 + 1 + 6 = 377$	$\begin{array}{r} 241 \\ - 240 \\ \hline 1 \\ + 136 \\ \hline 137 \\ + 240 \\ \hline 377 \end{array}$

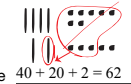
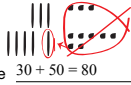
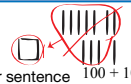
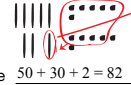
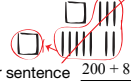
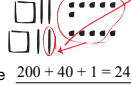
Name \_\_\_\_\_ Date \_\_\_\_\_

Problem	Drawing or Base-ten Shorthand and Number Sentence	Estimate
3.	$\begin{array}{r} 26 \\ + 52 \\ \hline \end{array}$ Number sentence _____	
4.	$\begin{array}{r} 127 \\ + 112 \\ \hline \end{array}$ Number sentence _____	
5.	$\begin{array}{r} 153 \\ + 24 \\ \hline \end{array}$ Number sentence _____	
6.	$\begin{array}{r} 241 \\ + 136 \\ \hline \end{array}$ Number sentence _____	

Exploring with Base-Ten Pieces SAB • Grade 2 • Unit 7 • Lesson 4 **336**

**Student Activity Book - Page 336**

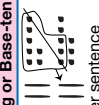
Trade for Fewest Pieces (SAB pp. 337–338)  
Questions 1–6

Problem	Drawing or Base-ten Shorthand and Number Sentence	Estimate
1. $\begin{array}{r} 47 \\ + 15 \\ \hline 62 \end{array}$	 Number sentence $40 + 20 + 2 = 62$	$\begin{array}{r} 47 \rightarrow 50 \\ 15 \rightarrow 20 \\ \hline 70 \end{array}$
2. $\begin{array}{r} 33 \\ + 47 \\ \hline 80 \end{array}$	 Number sentence $30 + 50 = 80$	$\begin{array}{r} 33 \rightarrow 30 \\ 47 \rightarrow 50 \\ \hline 80 \end{array}$
Problem	Drawing or Base-ten Shorthand and Number Sentence	Estimate
3. $\begin{array}{r} 71 \\ + 42 \\ \hline 113 \end{array}$	 Number sentence $100 + 10 + 3 = 113$	$\begin{array}{r} 71 \rightarrow 70 \\ 42 \rightarrow 40 \\ \hline 110 \end{array}$
4. $\begin{array}{r} 56 \\ + 26 \\ \hline 82 \end{array}$	 Number sentence $50 + 30 + 2 = 82$	$\begin{array}{r} 56 \rightarrow 60 \\ 26 \rightarrow 30 \\ \hline 90 \end{array}$
5. $\begin{array}{r} 133 \\ + 75 \\ \hline 208 \end{array}$	 Number sentence $200 + 8 = 208$	$\begin{array}{r} 133 \rightarrow 130 \\ 75 \rightarrow 80 \\ \hline 210 \end{array}$
6. $\begin{array}{r} 126 \\ + 115 \\ \hline 241 \end{array}$	 Number sentence $200 + 40 + 1 = 241$	$\begin{array}{r} 126 \rightarrow 130 \\ 115 \rightarrow 120 \\ \hline 250 \end{array}$

**Trade for Fewest Pieces**

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

Use base-ten shorthand or a drawing to show how you represented the numbers and made trades. Write a number sentence and estimate to check if your answer is reasonable.

Problem	Drawing or Base-ten Shorthand and Number Sentence	Estimate
Ex. $\begin{array}{r} 27 \\ + 18 \\ \hline 45 \end{array}$	 Number sentence $20 + 20 + 5 = 45$	$\begin{array}{r} 27 \rightarrow 30 \\ 18 \rightarrow 20 \\ \hline 50 \end{array}$
1. $\begin{array}{r} 47 \\ + 15 \\ \hline \end{array}$	Number sentence _____	Number sentence _____
2. $\begin{array}{r} 33 \\ + 47 \\ \hline \end{array}$	Number sentence _____	Number sentence _____

Copyright © Kendall Hunt Publishing Company

Exploring with Base-Ten Pieces SAB • Grade 2 • Unit 7 • Lesson 4 **337**

Student Activity Book - Page 337

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

Copyright © Kendall Hunt Publishing Company

Problem	Drawing or Base-ten Shorthand and Number Sentence	Estimate
3. $\begin{array}{r} 71 \\ + 42 \\ \hline \end{array}$	Number sentence _____	Estimate _____
4. $\begin{array}{r} 56 \\ + 26 \\ \hline \end{array}$	Number sentence _____	Estimate _____
5. $\begin{array}{r} 133 \\ + 75 \\ \hline \end{array}$	Number sentence _____	Estimate _____
6. $\begin{array}{r} 126 \\ + 115 \\ \hline \end{array}$	Number sentence _____	Estimate _____

338 SAB • Grade 2 • Unit 7 • Lesson 4 Exploring with Base-Ten Pieces

Student Activity Book - Page 338

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

**Collecting Pennies**

1. Jason solved the following problem. Does his answer make sense? Why or why not?

$$\begin{array}{r} 97 \\ + 86 \\ \hline 1713 \end{array}$$

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

2. A. Liz collected 37 pennies and Romesh collected 56 pennies. How many do they have altogether? Use base-ten shorthand or a drawing to show how you solved the problem. Write a number sentence.

Number sentence \_\_\_\_\_

B. Is your answer reasonable? How do you know?

Copyright © Kendall Hunt Publishing Company

---

Exploring with Base-Ten Pieces SAB • Grade 2 • Unit 7 • Lesson 4 **339**

**Collecting Pennies (SAB pp. 339–340)  
Questions 1–2**

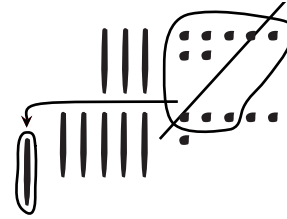
1. Strategies may vary.

Possible response:

I estimated the answer to be about 200 because both 97 and 86 are close to 100. 1713 is too big.

2. A.

$$\begin{array}{r} 37¢ \\ + 56¢ \\ \hline 93¢ \end{array}$$



B. Yes, my answer is reasonable.

$$37 \rightarrow 40$$

$$56 \rightarrow 60$$

$$100$$

93¢ is close to \$1.00

**Student Activity Book - Page 339**

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

**Collecting Pennies Feedback Box**

Use and apply place value concepts to make connections among representations of numbers using base-ten pieces, expanded form, and standard form.  
Represent addition problems using base-ten pieces and number sentences. (Q12A1)

Add two-digit numbers using mental math strategies (e.g., compensation, grouping numbers) and using base-ten pieces. (Q11–2)

Expectation	Check In	Comments
E1	<input type="checkbox"/>	
E2	<input type="checkbox"/>	
E3	<input type="checkbox"/>	

MP1: Check for reasonableness. Make sense of problems and persevere in solving them. If it does not, try again.

MP6: Show my work. I show or tell how I arrived at my answer so someone else can understand my thinking.

Yes...	Yes, but...	No, but...	No...

Copyright © Kendall Hunt Publishing Company

---

340 SAB • Grade 2 • Unit 7 • Lesson 4 Exploring with Base-Ten Pieces

**Student Activity Book - Page 340**

**Teacher Guide**

**Solve with Base-Ten Pieces (TG pp. 1–2)  
Homework  
Questions 1–10**

Problem	Drawing or Base-ten Shorthand and Number Sentence
1. $\begin{array}{r} 58 \\ + 26 \\ \hline 84 \end{array}$	 Number sentence $50 + 30 + 4 = 84$
2. $\begin{array}{r} 25 \\ + 27 \\ \hline 52 \end{array}$	 Number sentence $20 + 30 + 2 = 52$
3. $\begin{array}{r} 64 \\ + 52 \\ \hline 116 \end{array}$	 Number sentence $100 + 10 + 6 = 116$
4. $\begin{array}{r} 76 \\ + 34 \\ \hline 110 \end{array}$	 Number sentence $100 + 10 = 110$

Problem	Drawing or Base-ten Shorthand and Number Sentence
5. $\begin{array}{r} 47 \\ + 37 \\ \hline 84 \end{array}$	 Number sentence $40 + 40 + 4 = 84$
6. $\begin{array}{r} 42 \\ + 39 \\ \hline 81 \end{array}$	 Number sentence $40 + 40 + 1 = 81$
7. $\begin{array}{r} 126 \\ + 155 \\ \hline 281 \end{array}$	 Number sentence $200 + 80 + 1 = 281$
8. $\begin{array}{r} 96 \\ + 38 \\ \hline 134 \end{array}$	 Number sentence $100 + 30 + 4 = 134$
9. $\begin{array}{r} 44 \\ + 49 \\ \hline 93 \end{array}$	 Number sentence $50 + 40 + 3 = 93$

10.  $44 \rightarrow 40$   
 $49 \rightarrow 50$   
 $90$

Possible response: Jason's answer is not reasonable because his answer should be close to 90. His answer is much larger than 90.

Copyright © Kendall Hunt Publishing Company

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

**Solve with Base-Ten Pieces**

Dear Family Member:  
 In class we are using our understanding of place value to add larger numbers. Drawing the base-ten pieces helps remind us how large a number is when we know its "place."  
 Thank you.

Problem	Drawing or Base-Ten Shorthand and Number Sentence
Ex. $\begin{array}{r} 57 \\ + 26 \\ \hline 83 \end{array}$	 Number sentence $50 + 30 + 3 = 83$
1. $\begin{array}{r} 58 \\ + 26 \\ \hline \end{array}$	Number sentence _____
2. $\begin{array}{r} 25 \\ + 27 \\ \hline \end{array}$	Number sentence _____
3. $\begin{array}{r} 64 \\ + 52 \\ \hline \end{array}$	Number sentence _____
4. $\begin{array}{r} 76 \\ + 34 \\ \hline \end{array}$	Number sentence _____

TG • Grade 2 • Unit 7 • Lesson 4 Homework Master

Copyright © Kendall Hunt Publishing Company

**Teacher Guide - Page 1**

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

Problem	Drawing or Base-Ten Shorthand and Number Sentence
5. $\begin{array}{r} 47 \\ + 37 \\ \hline \end{array}$	Number sentence _____
6. $\begin{array}{r} 42 \\ + 39 \\ \hline \end{array}$	Number sentence _____
7. $\begin{array}{r} 126 \\ + 155 \\ \hline \end{array}$	Number sentence _____
8. $\begin{array}{r} 96 \\ + 38 \\ \hline \end{array}$	Number sentence _____
9. $\begin{array}{r} 44 \\ + 49 \\ \hline \end{array}$	Number sentence _____

10. Jason solved Question 9. Show Jason how to estimate the answer to the problem and explain why his answer is not reasonable.

$$\begin{array}{r} 44 \\ + 49 \\ \hline 813 \end{array}$$

Homework Master TG • Grade 2 • Unit 7 • Lesson 4 2

Copyright © Kendall Hunt Publishing Company

**Teacher Guide - Page 2**