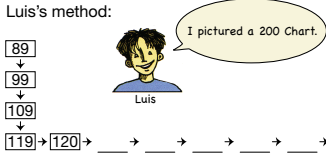
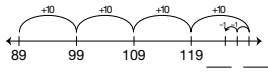


Name \_\_\_\_\_ Date \_\_\_\_\_

### Help Them Finish

**Many Ways to Solve a Problem**

Tara, Luis, Fern, and Josh started solving  $89 + 38$ . Before they could finish, the fire alarm rang. Help the students finish the problems using the method they chose.

- $89 + 38 =$   
Tara's method:  
 $89 = 80 + 9$   
 $+ 38 =$  \_\_\_\_\_
- $89 + 38 =$   
Luis's method:  

  
 $89$   
 $99$   
 $109$   
 $119$  →  $120$  → \_\_\_\_\_ → \_\_\_\_\_ → \_\_\_\_\_ → \_\_\_\_\_ → \_\_\_\_\_
- $89 + 38 =$   
Fern's method:  

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

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Making Connections SAB • Grade 2 • Unit 7 • Lesson 6 **347**

**Student Activity Book - Page 347**


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


- $89 + 38 =$   
Josh's method:  

$$\begin{array}{r} 89 \\ + 38 \\ \hline 110 \\ + \end{array}$$

**Compact Method**  
This is Julia's method for solving  $89 + 38$ :

$$\begin{array}{r} 1 \\ 89 \\ + 38 \\ \hline 127 \end{array}$$





Julia

- How did Julia show that she traded some bits for a skinny?
  - What does the 7 stand for?
  - Julia added 8 tens + 3 tens + 1 ten. How many tens does that make?
- Finish the problem using Julia's method.  

$$\begin{array}{r} \square \\ 37 \\ + 17 \\ \hline \square 4 \end{array}$$
  - Solve this problem using Julia's method.  

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

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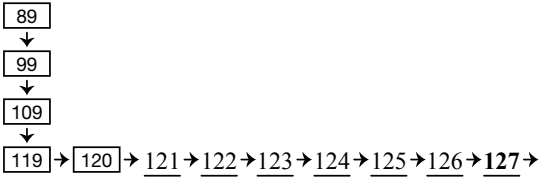
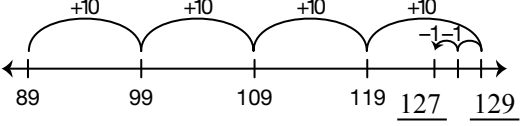
348 SAB • Grade 2 • Unit 7 • Lesson 6 Making Connections

**Student Activity Book - Page 348**

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

**Student Activity Book**

**Help Them Finish (SAB pp. 347–348)**  
**Questions 1–6**

- $$\begin{array}{r} 89 = 80 + 9 \\ + 38 = 30 + 8 \\ \hline 110 + 17 = 127 \end{array}$$
- 
- 
  
 Number sentence 89 + 40 - 2 = 127

- $$\begin{array}{r} 89 \\ + 38 \\ \hline 110 \\ + 17 \\ \hline 127 \end{array}$$
- She put a small 1 in the tens column to remind her to add another skinny or ten.
  - 7 ones
  - 12 skinnies or 12 tens
- $$\begin{array}{r} \boxed{1} \\ 37 \\ + 17 \\ \hline \boxed{5} 4 \end{array}$$
  - $$\begin{array}{r} 1 \\ 27 \\ + 35 \\ \hline 62 \end{array}$$

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Use Paper and Pencil (SAB pp. 349–350)

Questions A–F

Methods will vary. Possible responses:

A.  $88 = 80 + 8$   
 $+ 22 = 20 + 2$   
 $100 + 10 = 110$

B.  $44$   
 $+ 79$   
 $13$   
 $+ 110$   
 $123$

C.  $95$   
 $+ 37$   
 $132$

D.  $76 = 70 + 6$   
 $+ 41 = 40 + 1$   
 $110 + 7 = 117$

E.  $52$   
 $+ 29$   
 $70$   
 $+ 11$   
 $81$

F. Problems chosen will vary. Possible response for  $52 + 29$ : I used the friendly numbers  $50 + 30 = 80$ . My answer is reasonable because the actual answer is 81.

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

**Use Paper and Pencil**

Paper-and-Pencil Methods		
Expanded Form	All-Partials	Compact
$83 = 80 + 3$	$83$	$83$
$+ 38 = 30 + 8$	$+ 38$	$+ 38$
$110 + 11 = 121$	$110$	$121$
	$+ 11$	
	$121$	

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

A.  $88 + 22$

Estimate:

B.  $44$   
 $+ 79$

Estimate:

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Making Connections SAB • Grade 2 • Unit 7 • Lesson 6 **349**

Student Activity Book - Page 349

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

C.  $95 + 37$

Estimate:

D.  $76$   
 $+ 41$

Estimate:

E.  $52 + 29$

Estimate:

F. Choose one problem. Show how you estimate to check the reasonableness of your answer.

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350 SAB • Grade 2 • Unit 7 • Lesson 6 **Making Connections**

Student Activity Book - Page 350

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

### Add Larger Numbers

Estimate the sums first and then solve the problems. Use the *Addition Strategies Menu* to help choose strategies.

- Show a mental math strategy to solve  $73 + 26$ .

Estimate:

- Show a paper-and-pencil strategy to solve  $53 + 39$ .

Estimate:

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Making Connections SAB • Grade 2 • Unit 7 • Lesson 6 **353**

**Student Activity Book - Page 353**

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

- Richard and Carla solved  $64 + 78$ .  
 Richard's solution: 
$$\begin{array}{r} 64 \\ + 78 \\ \hline 12 \\ + 130 \\ \hline 142 \end{array}$$
  
 Carla's solution: 
$$\begin{array}{r} 64 = 60 + 4 \\ + 78 = 70 + 8 \\ \hline 130 + 12 = 142 \end{array}$$
  - Why did Richard write 130?
  - Why did Carla write 12?
- Rosa solved the same problem this way:  

$$\begin{array}{r} 1 \\ 64 \\ + 78 \\ \hline 142 \end{array}$$
  
 Why did Rosa write the little 1 above the tens?  
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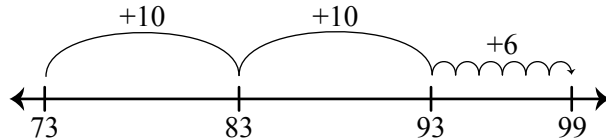
354 SAB • Grade 2 • Unit 7 • Lesson 6 **Making Connections**

**Student Activity Book - Page 354**

**Add Larger Numbers (SAB pp. 353–354)  
 Questions 1–4**

1. Mental math method chosen will vary. One possible response:

Estimate: 73 is like 3 quarters + 26 is like 1 quarter = 4 quarters or 100 cents, so I estimate a sum of 100.



2. Paper-and-pencil methods chosen will vary. One possible response:

Estimate: I used the friendly numbers  $50 + 40 = 90$ .

I used all-partials.

$$\begin{array}{r} 53 \\ + 39 \\ \hline 80 \\ + 12 \\ \hline 92 \end{array}$$

3. **A.** Richard added  $60 + 70 = 130$

**B.** Carla added 4 ones plus 8 ones to get 12.

4. Rosa wrote the little 1 above the tens to show that  $8 + 4$  makes another ten. It will remind her to add another ten to 6 tens and 7 tens.

**Teacher Guide**

**Choose Which Way (TG pp. 1–2)  
Homework  
Questions A–F**

Methods will vary. Possible responses:

A.  $74 = 70 + 4$   
 $+ 19 = 10 + 9$   
 $80 + 13 = 93$

B.  $\begin{array}{r} 1 \\ 66 \\ + 27 \\ \hline 93 \end{array}$

C.  $\begin{array}{r} 59 \\ + 25 \\ \hline 70 \\ + 14 \\ \hline 84 \end{array}$


D.  $26 = 20 + 6$   
 $+ 39 = 30 + 9$   
 $50 + 15 = 65$

E.  $\begin{array}{r} 1 \\ 47 \\ + 38 \\ \hline 85 \end{array}$

F. Problems chosen will vary. Possible response:  
 I used friendly numbers to estimate  $47 + 38$ .  
 $50 + 40 = 90$ .

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

**Choose Which Way**

 **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 Methods		
Expanded Form	All-Partials	Compact
$57 = 50 + 7$	57	$\begin{array}{r} 57 \\ + 36 \\ \hline 93 \end{array}$
$+ 36 = 30 + 6$	$\begin{array}{r} + 36 \\ \hline 80 \end{array}$	
$80 + 13 = 93$	$\begin{array}{r} + 13 \\ \hline 93 \end{array}$	

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

A.  $74 + 19$

B.  $\begin{array}{r} 66 \\ + 27 \\ \hline \end{array}$

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TG • Grade 2 • Unit 7 • Lesson 6 Homework Master

**Teacher Guide - Page 1**

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

C.  $59 + 25$

D.  $\begin{array}{r} 26 \\ + 39 \\ \hline \end{array}$

E.  $47 + 38$

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

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Homework Master TG • Grade 2 • Unit 7 • Lesson 6 2

**Teacher Guide - Page 2**