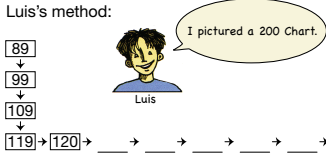
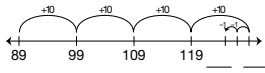


Name _____ Date _____

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:

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


 Number sentence _____

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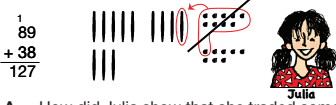
Name _____ Date _____

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

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

Compact Method

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



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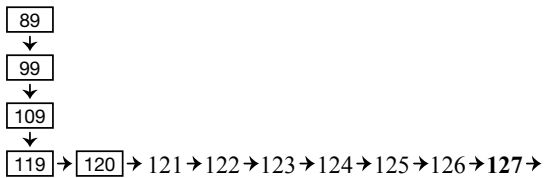
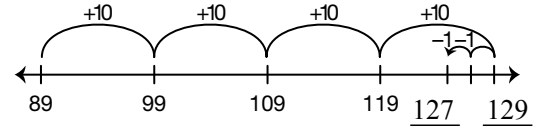
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*Answers and/or discussion are included in the lesson.

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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
- $$\begin{array}{r} \square \\ 37 \\ + 17 \\ \hline \square 4 \end{array}$$
 - $$\begin{array}{r} 27 \\ + 35 \\ \hline \end{array}$$

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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.

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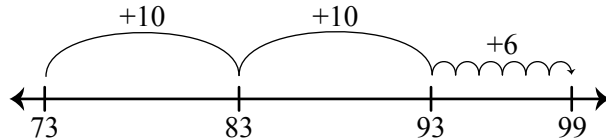
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**Add Larger Numbers (SAB pp. 353–354)
Questions 1–4**

- 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.



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

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

I used all-partials.

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

- Richard added $60 + 70 = 130$
 - Carla added 4 ones plus 8 ones to get 12.
- 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.