

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

**Use Expanded Form to Add**

First estimate the sum. Then show each problem using base-ten pieces. Write it in base-ten shorthand and expanded form. Solve it. Remember the Fewest Pieces Rule when writing your final answer. You may draw a picture of your trades. Draw a circle around your final answer.

**Example:**

66		:....	66 = 60 + 6
+ 17		:....	+ 17 = 10 + 7
			70 + 13 = 83

Estimate: 70 + 20 = 90

1. 
$$\begin{array}{r} 28 \\ + 19 \\ \hline \end{array}$$

Estimate:

2.  $53 + 27 =$

Estimate:

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3. 
$$\begin{array}{r} 39 \\ + 44 \\ \hline \end{array}$$

Estimate:

4.  $93 + 21 =$

Estimate:

5. 
$$\begin{array}{r} 58 \\ + 73 \\ \hline \end{array}$$

Estimate:

6. Look at Question 1 again. How could you solve it using mental math or another strategy or tool?

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

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Use Expanded Form to Add (SAB pp. 341–342)  
Questions 1–6

Possible responses are given for estimates.

1. 
$$\begin{array}{r} || \quad \cdot\cdot\cdot\cdot \\ | \quad \cdot\cdot\cdot\cdot \\ \hline \end{array}$$

$$\begin{array}{r} 28 = 20 + 8 \\ + 19 = 10 + 9 \\ \hline 30 + 17 = 47 \end{array}$$

Estimate:  $30 + 20 = 50$

2. 
$$\begin{array}{r} ||||| \quad \cdot\cdot\cdot \\ || \quad \cdot\cdot\cdot\cdot \\ \hline \end{array}$$

$$\begin{array}{r} 53 = 50 + 3 \\ + 27 = 20 + 7 \\ \hline 70 + 10 = 80 \end{array}$$

Estimate:  $50 + 30 = 80$

3. 
$$\begin{array}{r} |||| \quad \cdot\cdot\cdot\cdot \\ |||| \quad \cdot\cdot\cdot \\ \hline \end{array}$$

$$\begin{array}{r} 39 = 30 + 9 \\ + 44 = 40 + 4 \\ \hline 70 + 13 = 83 \end{array}$$

Estimate:  $40 + 40 = 80$

4. 
$$\begin{array}{r} ||||| \quad |||| \quad \cdot\cdot\cdot \\ || \quad \cdot \\ \hline \end{array}$$

$$\begin{array}{r} 93 = 90 + 3 \\ + 21 = 20 + 1 \\ \hline 110 + 4 = 114 \end{array}$$

Estimate:  $90 + 20 = 110$

5. 
$$\begin{array}{r} ||||| \quad \cdot\cdot\cdot\cdot \\ ||||| \quad || \quad \cdot\cdot\cdot \\ \hline \end{array}$$

$$\begin{array}{r} 58 = 50 + 8 \\ + 73 = 70 + 3 \\ \hline 120 + 11 = 131 \end{array}$$

Estimate:  $60 + 70 = 130$

6.\* Answers will vary. Possible response:  
If I used mental math I could estimate  
 $30 + 20 = 50$  then subtract 3 to get 47.

**Two Ways to Write and Solve a Problem  
(SAB pp. 343–344)**

**Questions 1–4**

Possible responses are given for estimates.

1.  $31 = 30 + 1$   $31$   
 $55 = 50 + 5$   $+ 55$   
 $80 + 6 = 86$   $80$   
 $+ 6$   
 $86$

Estimate:  $30 + 50 = 80$

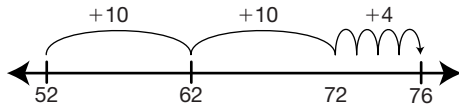
2.  $37 = 30 + 7$   $37$   
 $43 = 40 + 3$   $+ 43$   
 $70 + 10 = 80$   $10$   
 $+ 70$   
 $80$

Estimate:  $40 + 40 = 80$

3.  $52 = 50 + 2$   $52$   
 $24 = 20 + 4$   $+ 24$   
 $70 + 6 = 76$   $70$   
 $+ 6$   
 $76$

Estimate:  $50 + 25 = 75$

4. Answers will vary. Possible response for  $52 + 24$ :



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**Two Ways to Write and Solve a Problem**

Solve each problem using two different paper-and-pencil methods. Remember to estimate first. Draw a circle around your answers.

Example:	Expanded Form	All-Partials
	$23 = 20 + 3$ $+ 46 = 40 + 6$ $60 + 9 = 69$	$23$ $+ 46$ $60$ $+ 9$ $69$
Estimate: $25 + 50 = 75$		

1.  $31$  **Expanded Form**  
 $+ 55$  **All-Partials**

Estimate:

2.  $37 + 43 =$  **All-Partials**

Estimate:

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**Expanded Form** **All-Partials**

3.  $52$   
 $+ 24$

Estimate:

4. Choose one problem from Questions 1–3. Solve it using a mental math strategy. Show or tell how you solved it. Use tools like a *200 Chart*, number line, or coins.

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**Three Students' Work**

1. Mario used expanded form to solve this problem, but he did not finish. Finish his problem.

$$\begin{array}{r} 63 = 60 + 3 \\ + 21 \\ \hline \end{array}$$

2. Emily used all-partials to solve this problem.

$$\begin{array}{r} 47 \\ + 35 \\ 70 \\ + 12 \\ \hline 82 \end{array}$$

A. Why did Emily write 12?

B. Why did she write 70?

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3. Kim estimated a sum of about 90 for this problem. Then she used all-partials to solve the problem.

$$\begin{array}{r} 52 \\ + 43 \\ 50 \\ + 90 \\ \hline 140 \end{array}$$

140?  
That is not  
reasonable!



A. Solve  $52 + 43$  using all-partials.

B. What would you tell Kim to help her?

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**Three Students' Work (SAB pp. 345–346)  
Questions 1–3**

1.  $63 = 60 + 3$   
 $+ 21 = 20 + 1$   
 $80 + 4 = 84$

2. A. 7 ones plus 5 ones equals 12.  
 B. 4 tens plus 3 tens equals 70.

3. A.  $52$   
 $+ 43$   
 $5$   
 $+ 90$   
 $95$

- B. Possible response: Kim should have added 2 ones plus 3 ones. Instead, she added 2 tens plus 3 tens and wrote down 50. Then she added 5 tens and 4 tens and added 90 to the 50 to get 140.