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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:

$$66 = 60 + 6$$
$$+ 17 = 10 + 7$$
$$70 + 13 = \widehat{83}$$

Estimate: $70 + 20 = 90$

1. 28
   $+ 19$

   Estimate:

2. $53 + 27 =$

   Estimate:

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3. 39
   $+ 44$

   Estimate:

4. $93 + 21 =$

   Estimate:

5. 58
   $+ 73$

   Estimate:

6. Look at Question 1 again. How could you solve it using mental math or another strategy or tool?
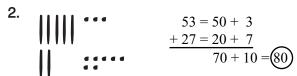
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*Answers and/or discussion are included in the lesson.

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

Possible responses are given for estimates.

1.

   $$28 = 20 + 8$$
   $$+ 19 = 10 + 9$$
   $$30 + 17 = \widehat{47}$$

   Estimate: $30 + 20 = 50$

2.

   $$53 = 50 + 3$$
   $$+ 27 = 20 + 7$$
   $$70 + 10 = \widehat{80}$$

   Estimate: $50 + 30 = 80$

3.

   $$39 = 30 + 9$$
   $$+ 44 = 40 + 4$$
   $$70 + 13 = \widehat{83}$$

   Estimate: $40 + 40 = 80$

4.

   $$93 = 90 + 3$$
   $$+ 21 = 20 + 1$$
   $$110 + 4 = \widehat{114}$$

   Estimate: $90 + 20 = 110$

5.

   $$58 = 50 + 8$$
   $$+ 73 = 70 + 3$$
   $$120 + 11 = \widehat{131}$$

   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.

$31 = 30 + 1$
$55 = 50 + 5$
$\quad\quad 80 + 6 = \boxed{86}$

$\quad\quad\quad 31$
$\quad\quad + 55$
$\quad\quad\quad 80$
$\quad\quad + \;\; 6$
$\quad\quad\quad \boxed{86}$

Estimate: $30 + 50 = 80$

2.

$37 = 30 + 7$
$43 = 40 + 3$
$\quad\quad 70 + 10 = \boxed{80}$

$\quad\quad\quad 37$
$\quad\quad + 43$
$\quad\quad\quad 10$
$\quad\quad + 70$
$\quad\quad\quad \boxed{80}$

Estimate: $40 + 40 = 80$

3.

$52 = 50 + 2$
$24 = 20 + 4$
$\quad\quad 70 + 6 = \boxed{76}$

$\quad\quad\quad 52$
$\quad\quad + 24$
$\quad\quad\quad 70$
$\quad\quad + \;\; 6$
$\quad\quad\quad \boxed{76}$

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 + 46	$23 = 20 + 3$ $+\;46 = 40 + 6$ $\quad 60 + 9 = \boxed{69}$	23 + 46 60 + 9 $\boxed{69}$
Estimate: $25 + 50 = 75$		

$\quad\quad\quad\quad\quad\quad$ **Expanded Form** $\quad\quad$ **All-Partials**

1. $\quad\quad 31$
$\quad\quad + 55$

Estimate: _____

$\quad\quad\quad\quad\quad\quad$ **Expanded Form** $\quad\quad$ **All-Partials**

2. $37 + 43 =$

Estimate: _____

Two Paper–and–Pencil Methods $\quad\quad$ SAB · Grade 2 · Unit 7 · Lesson 5 $\quad$ **343**

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$\quad\quad\quad\quad\quad$ **Expanded Form** $\quad\quad$ **All-Partials**

3. $\quad\quad 52$
$\quad\quad + 24$

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 (SAB pp. 345–346)
Questions 1–3

1. $$63 = 60 + 3$$
    $$\underline{+\ 21 = 20 + 1}$$
    $$80 + 4 = 84$$

2. **A.** 7 ones plus 5 ones equals 12.

    B. 4 tens plus 3 tens equals 70.

3. **A.**
    $$\begin{array}{r} 52 \\ +\ 43 \\ \hline 5 \\ +\ 90 \\ \hline 95 \end{array}$$

    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.