

Student Guide

Addition Review (SG pp. 136–139)
Questions 1–10

1. Responses will vary.
2. Responses will vary.
3. Responses will vary. Possible response: The mental math strategies they chose to use were quick and efficient ways to solve the problem. They could find numbers that were easy to “see” in their heads and easy to use.
- 4.* Responses will vary. See Lesson 4 for possible strategies.
- 5.* Maya traded 14 ones for 1 ten and 4 ones. She put the 1 above the 3 to remind her of the trade.
- 6.* 70 is the total of the tens. 14 is the total of the ones.

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Addition Review

Mental Math Strategies
Jason and Rosa used mental math to solve $53 + 25$.

Jason

Rosa

Discuss

1. Explain Jason's strategy in your own words.
2. Explain Rosa's strategy in your own words.
3. Why do you think they chose to use mental math strategies instead of paper-and-pencil strategies to solve this problem?
4. Look carefully at these problems. Do not solve them yet, but instead talk with a partner. Can you use mental math to solve them or would you need paper-and-pencil to solve some?

$53 + 25$

$69 + 20$

$22 + 74$

Use the *Connect Addition Methods* pages in the *Student Activity Book* to compare and connect paper-and-pencil methods to strategies involving base-ten pieces.

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"You are not using the Fewest Pieces Rule," said Maya. Maya traded 10 bits for a skinny. Then there were 8 skinnies and 2 bits. Together, they made 82 Chocos.

1000s	100s	10s	1s
		2	8
		+	5 4
		7 1	12
		8	2

5. "We do not need a record sheet with columns if we think about the Fewest Pieces Rule and make the trades in our heads," said Maya. Look at the two ways Maya solved the problem below. Why did Maya put a 1 above the 3 when using paper and pencil?

1000s	100s	10s	1s
		3	7
		+	4 7
		7 1	14
		8	4

1
37
+ 47
70
+ 14
84

6. Eric said, "When I use paper and pencil, I think about adding the skinnies and bits. I think 3 skinnies plus 4 skinnies is $30 + 40$. Then 7 bits plus 7 bits is 14. I write it like this."

37
+ 47
70
+ 14
84

Why did Eric write $70 + 14$ under his problem?

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

Answer Key • Lesson 4: Addition Review

✓ Check-In: Questions 7-10

7. Use the *Addition Strategies Menu* from the *Student Activity Book* to solve the problems. Try to use each strategy at least once. Check to see if your answers are reasonable.

A. $\begin{array}{r} 25 \\ + 30 \\ \hline \end{array}$ B. $\begin{array}{r} 47 \\ + 27 \\ \hline \end{array}$ C. $\begin{array}{r} 62 \\ + 73 \\ \hline \end{array}$ D. $\begin{array}{r} 63 \\ + 59 \\ \hline \end{array}$

E. $\begin{array}{r} 72 \\ + 48 \\ \hline \end{array}$ F. $\begin{array}{r} 27 \\ + 82 \\ \hline \end{array}$ G. $\begin{array}{r} 13 \\ 35 \\ + 26 \\ \hline \end{array}$ H. $\begin{array}{r} 28 \\ 17 \\ + 26 \\ \hline \end{array}$

8. Solve Question 7D using base-ten pieces. Show how you solved it using base-ten shorthand. Then record your work on a base-ten recording sheet.

1000s	100s	10s	1s

9. Solve Question 7E a second way using a mental math strategy. Explain your method.

10. Explain your strategy for deciding if your answer to Question 7G is reasonable.

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7. A. 55 B. 74 C. 135 D. 122
E. 120 F. 109 G. 74 H. 71

8.

	1000s	100s	10s	1s
			6	3
		+	5	9
			11	12
			12	2
	1	2	2	

9. Possible response: I added the tens: $70 + 40 = 110$. Then I added the ones: $2 + 8 = 10$. $110 + 10 = 120$
10. Possible response: I find friendly numbers and then estimate the answer. $10 + 40 + 30 = 80$. 74 is a reasonable answer.

Student Activity Book

Connect Addition Methods (SAB pp. 185–186)
Questions 1–8

One method is shown for each.

1.

1000s	100s	10s	1s
		1	7
		3	2
		4	9

$$\begin{array}{r} 17 \\ + 32 \\ \hline 49 \end{array}$$

2.

1000s	100s	10s	1s
		2	7
		3	5
		5	12
		6	2

$$\begin{array}{r} 27 \\ + 35 \\ \hline 50 \\ + 12 \\ \hline 62 \end{array}$$

Fewest Pieces

3.

1000s	100s	10s	1s
		8	3
		3	2
		11	5
	1	1	5

$$\begin{array}{r} 83 \\ + 32 \\ \hline 5 \\ + 110 \\ \hline 115 \end{array}$$

Fewest Pieces

4.

1000s	100s	10s	1s
		2	6
		6	6
		1	8
		9	20
		11	0
	1	1	0

$$\begin{array}{r} 26 \\ 66 \\ + 18 \\ \hline 110 \end{array}$$

Fewest Pieces

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Connect Addition Methods

Use mental math strategies to estimate the sums. Then solve each of the addition problems using base-ten pieces. Finally, solve the problems using a paper-and-pencil method.

1.

1000s	100s	10s	1s

$$\begin{array}{r} 17 \\ + 32 \\ \hline \end{array}$$

2.

1000s	100s	10s	1s

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

3.

1000s	100s	10s	1s

$$\begin{array}{r} 83 \\ + 32 \\ \hline \end{array}$$

4.

1000s	100s	10s	1s

$$\begin{array}{r} 26 \\ 66 \\ + 18 \\ \hline \end{array}$$

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Answer Key • Lesson 4: Addition Review

Name _____ Date _____

Tara, Julia, Yolanda, and Josh started the problems below. Before they could finish, the fire alarm rang. Help the students finish the problems using the method they chose.

5. $64 + 28 =$

Tara's method:

$$\begin{array}{r} 64 = 60 + 4 \\ + 28 = \end{array}$$

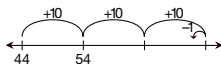
6. $64 + 28 =$

Julia's method:

$$\begin{array}{r} 64 \\ + 28 \\ \hline 2 \end{array}$$

7. $44 + 29 =$

Yolanda's method:



Number Sentence _____

8. $44 + 29 =$

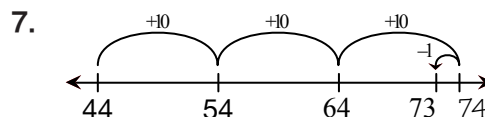
Josh's method:

$$\begin{array}{r} 44 \\ + 29 \\ \hline 60 \\ + \end{array}$$

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5. $64 = 60 + 4$
 $+ 28 = \frac{20 + 8}{80 + 12 = 92}$

6. $\begin{array}{r} 1 \\ 64 \\ + 28 \\ \hline 92 \end{array}$



Number Sentence $44 + 30 - 1 = 73$

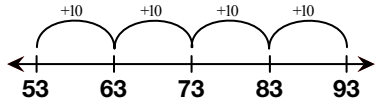
8. $\begin{array}{r} 44 \\ + 29 \\ \hline 60 \\ + 13 \\ \hline 73 \end{array}$

Student Activity Book

Using Addition Strategies
Homework (SAB pp. 189–190)
Questions 1–8

One possible method is shown for each.

1. $53 + 10 + 10 + 10 + 10 = 93$



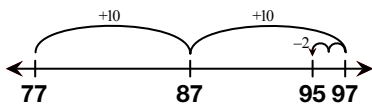
2.
$$\begin{array}{r} 27 \\ + 41 \\ \hline 60 \\ + 8 \\ \hline 68 \end{array}$$

3. 98 is 2 less than 100. $100 + 50 = 150$;
 $150 - 2 = 148$.

4.
$$\begin{array}{r} 36 \\ + 57 \\ \hline 80 \\ + 13 \\ \hline 93 \end{array}$$

5.
$$\begin{array}{r} 38 \\ + 42 \\ \hline 70 \\ + 10 \\ \hline 80 \end{array}$$

6. $77 + 20 - 2 = 95$



7.
$$\begin{array}{r} 12 \\ 35 \\ + 45 \\ \hline 92 \end{array}$$

8. 82 is 2 more than 80.
 $80 + 40 = 120$ and $120 + 2 = 122$

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Name _____ Date _____

Using Addition Strategies

Solve the problems in two ways. You may use base-ten shorthand to show how to use base-ten pieces, a pencil-and-paper method, or your own method. Use the *Addition Strategies Menu* from the *Student Activity Book*.

1. $53 + 40 =$

2.
$$\begin{array}{r} 27 \\ + 41 \\ \hline \end{array}$$

3. $98 + 50 =$

4.
$$\begin{array}{r} 36 \\ + 57 \\ \hline \end{array}$$

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Name _____ Date _____

5.
$$\begin{array}{r} 38 \\ + 42 \\ \hline \end{array}$$

6. $77 + 18 =$

7.
$$\begin{array}{r} 12 \\ 35 \\ + 45 \\ \hline \end{array}$$

8. $40 + 82 =$

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