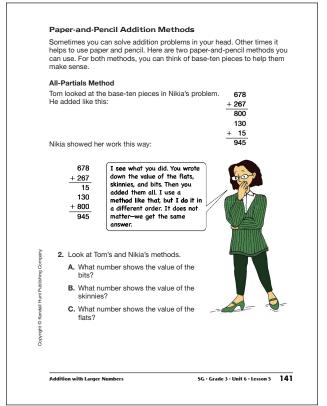


### Student Guide

**Addition with Larger Numbers** (SG pp. 140-144) Questions 1-11

1.\* 945



**2. A.** 15

**B.** 130

**C.** 800

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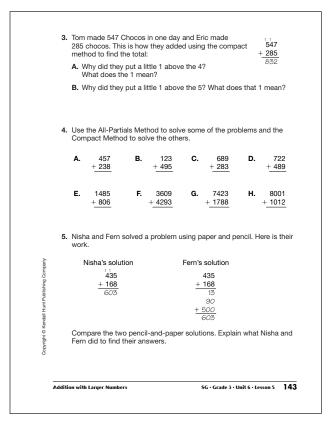
\*Answers and/or discussion are included in the lesson.

TG · Grade 3 · Unit 6 · Lesson 5 · Answer Key

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- **3. A.** They traded 12 ones for 1 ten and 2 ones. The 1 means 10.
  - **B.** They traded 13 tens for 1 hundred and 3 tens. The 1 means 100.
- **4. A.** 695
  - **B.** 618
  - **C.** 972
  - **D.** 1211
  - **E.** 2291
  - **F.** 7902
  - **G.** 9211
  - **H.** 9013
- 5. Nisha started with 13 bits. She traded 10 of them for 1 skinny. The 1 above the 3 shows the new skinny. Then she added the total number of skinnies. She had 10 skinnies. She traded all 10 skinnies for 1 flat. There were no skinnies left so she recorded a 0 in the skinnies column. The new flat was recorded by writing a 1 above the 4. She added all the flats. She had 6 flats in all.

Fern had 13 bits to start with. She traded 10 bits for 1 skinny and recorded 13. She added 3 skinnies and 6 skinnies and got 9 skinnies. She recorded this in a new row as 90, 9 skinnies and 0 bits. She added 4 flats and 1 flat and got 5 flats. In a third row she recorded 500 or 5 flats, 0 skinnies, and 0 bits. Altogether she had 5 flats, 10 skinnies, and 3 bits. She traded the 10 skinnies for 1 flat. No skinnies remained.



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# **Answer Key • Lesson 5: Addition with Larger Numbers**

# ✓ Check-In: Questions 6-11

Solve the following problems using a paper-and-pencil method. Use the Addition Strategies Menu in the Student Guide Reference section. Check to see if your answer is reasonable.

- 7. Show how Question 6B can be solved using a mental math strategy.
- 8. Explain an estimate strategy that shows your answer to Question 6E is reasonable.
- 9. Choose one problem from Question 6 to solve:
  - A. using expanded form.
  - B. using the all-partials method.
  - C. using the compact method.
  - D. Which method do you like best? Why?
- Eric and Tom made 1432 Chocos on Wednesday, 938 Chocos on Thursday, and 2007 Chocos on Friday. Put these numbers in order from smallest to largest.
- 11. How many Chocos did they make altogether on Wednesday and Thursday?

Play the *Digits Game* and then complete the *Problem Solving* pages for more addition practice. Both items are in the *Student Activity Book*.

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Addition with Larger Numbers

### Student Guide - Page 144

Solution strategies will vary.

- **6. A.** 107
  - **B.** 482
  - **C.** 377
  - **D.** 3873
  - **E.** 7591
  - **F.** 8940
- **7.** Possible strategy:

$$79 + 1 = 80;$$

$$402 + 80 = 482$$

- **8.** Possible response: It is a reasonble answer because if only the thousands and hundreds are added together the answer is 7500.
- **9. A.** Possible strategies for 6F:

$$3208 = 3000 + 200 + 0 + 8$$

$$+5732 = 5000 + 700 + 30 + 2$$

$$= 8000 + 900 + 30 + 10$$

$$= 8940$$

**B.** All-Partials:

$$\begin{array}{r}
 3208 \\
 + 5732 \\
\hline
 10 \\
 30 \\
 900 \\
 + 8000 \\
\hline
 8940
 \end{array}$$

C. Compact:

$$\begin{array}{r}
 3208 \\
 +5732 \\
 \hline
 8940
 \end{array}$$

- **D.** Answers will vary.
- **10.** 938, 1432, 2007
- 11. 2370 Chocos

# Student Guide

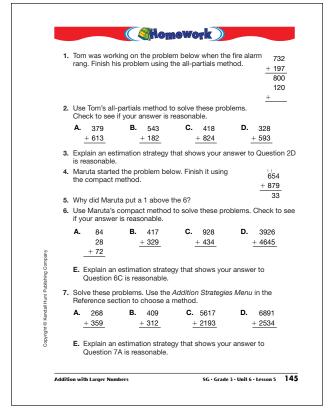
# Homework (SG p. 145) Questions 1–7

**3.** I used friendly numbers. 328 is close to 300. 593 is close to 600. 300 + 600 = 900. 921 is a reasonable answer.

**5.** Maruta traded 13 tens for 1 hundred and 3 tens. The one means 100.

D. 
$$\begin{array}{r} 1 & 1 \\ 3926 \\ + 4645 \\ \hline 8571 \end{array}$$

**E.** If I add the hundreds 900 + 400 = 1300. 1362 is reasonable.



### Student Guide - Page 145

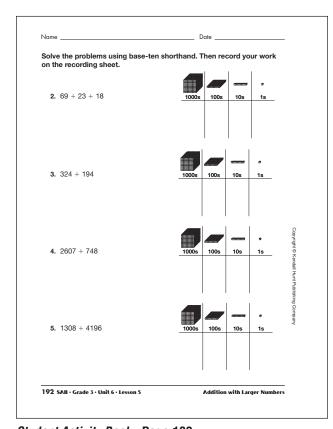
7. Methods will vary.

A. 
$${}^{1}_{268}$$
 $+359$ 
 $\overline{627}$ 

B. 
$$\begin{array}{r} 1 \\ 409 \\ +312 \\ \hline 721 \end{array}$$

- D. 6891 + 2534 9425
- E. Possible explanation: I use friendly numbers. 268 is close to 250 and 359 is close to 350. 250 + 350 = 600. 627 is reasonable.

### Student Activity Book - Page 191

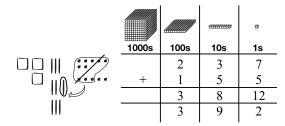


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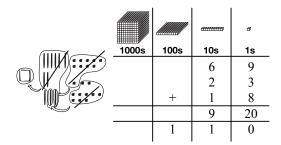
### **Student Activity Book**

# Adding with Base-Ten Pieces (SAB pp. 191–192) Questions 1–5

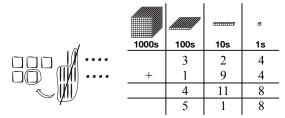
Ι.



2.



3.



4.

	100		ø
 1000s	100s	10s	1s
2	6	0	7
+	7	4	8
2	13	4	15
3	3	5	5

5.

				ø
_	1000s	100s	10s	1s
	1	3	0	8
	+4	1	9	6
aa o wwa	5	4	9	14
	5	5	0	4

# Student Activity Book

### Problem Solving (SAB pp. 195–196) Questions 1–5

I. Romesh

Second Method

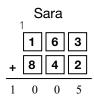
Jason

2. Kathy

Estimation Strategy



1437 is a reasonable answer.

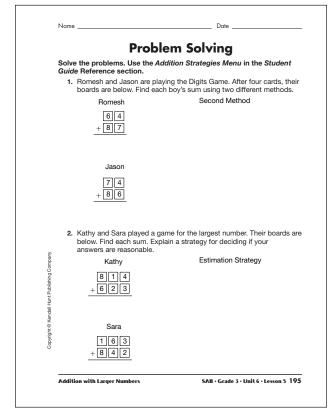


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$$\begin{array}{r}
 200 \\
 +800 \\
 \hline
 1000
 \end{array}$$

1005 is a reasonable answer.

- **3.** Kathy won. Kathy had the two largest numbers in the hundreds place. 800 + 600 = 1400.
- **4.**\* See discussion in the lesson.
- **5. A.** If I add the hundreds (900 + 700) and the tens (60 + 50) I get 1600 + 110 =1710. His answer of 1616 is not reasonable.
  - **B.** 961 + 754 does not equal 1616. He added 11 ones instead of 11 tens.

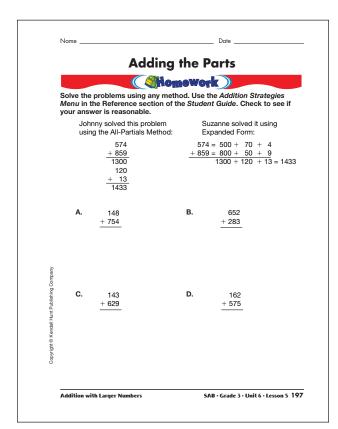


### Student Activity Book - Page 195

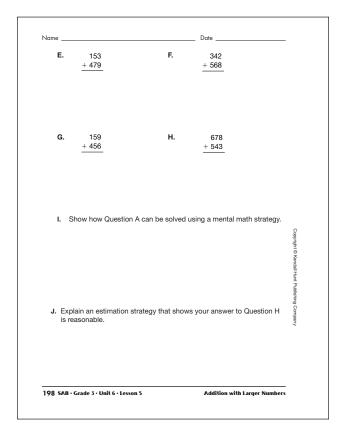
Name	Date
3.	Who won Kathy and Sara's game? Show how you decided who had the largest number.
4.	Miguel's game board looks like the one below. He is trying to find the largest sum. The next card is a 5. Where should he put the 5? Explain your thinking.
	+ 7 4
<b>√</b>	Check-In: Question 5
5.	Miguel's completed game board is to the right. He used the all-partials method to find the sum.  9 6 1  + 7 5 4
	A. Explain an estimation strategy for checking if his answer is reasonable.  1 6 0 0 1 1 1 1 1 1 1 5 5 1 6 1 6
	<b>B.</b> Check Miguel's calculations. Do you agree with his solution? Why or why not?
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Student Activity Book - Page 196

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



### Student Activity Book - Page 197



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### **Student Activity Book**

### Adding the Parts (SAB pp. 197–198) Homework Questions A–J

Explanations will vary.

B. 
$$652 = 600 + 50 + 2$$
$$+283 = 200 + 80 + 3$$
$$800 + 130 + 5 = 935$$

C. 
$$\begin{array}{r} 1 \\ 143 \\ + 629 \\ \hline 772 \end{array}$$

D. 
$$162 + 575 \over 737$$

E. 
$$\frac{11}{153}$$
  $\frac{+479}{632}$ 

G. 
$$159 = 100 + 50 + 9$$
$$+ 456 = 400 + 50 + 6$$
$$500 + 100 + 15 = 615$$

H. 
$$678$$
 $+543$ 
 $1221$ 

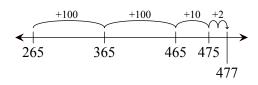
- **I.** Explanations will vary. Think of 150 + 750 = 900. 900 + 2 = 902
- **J.** Explanations will vary. 678 is close to 700. 543 is close to 500. 700 + 500 is 1200, so 1221 is reasonable.

### Teacher Guide

### Addition Quiz (TG p. 1) Questions 1–5



$$400 + 70 + 7 = 477$$

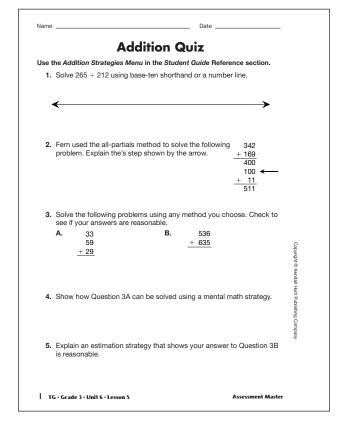


- **2.** Fern added the tens. There are 4 tens in 340 and 6 tens in 169. 40 + 60 is 100.
- 3. Strategies will vary.

A. 
$$33 = 30 + 3$$
 Check: 30  
 $59 = 50 + 9$  60  
 $+ 29 = 20 + 9$   $+ 30$   
 $100 + 21 = 121$  120

The sum is about 120.

- **4.** See response to Question 3A.
- **5.** See response to Question 3B.



### Teacher Guide - Page 1