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

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

**I.**\* 945

# **2. A.** 15**B.** 130**C.** 2000

**C.** 800

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# Answer Key • Lesson 5: Addition with Larger Numbers

- **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.

285 chocos. This is method to find the	s how they added using the compact 547 total: + 285 632
A. Why did they pu What does the 1	ut a little 1 above the 4? 1 mean?
B. Why did they pu	ut a little 1 above the 5? What does that 1 mean?
4. Use the All-Partials Compact Method to	s Method to solve some of the problems and the to solve the others.
<b>A.</b> 457 + 238	<b>B.</b> 123 <b>C.</b> 689 <b>D.</b> 722 + 495 + 283 + 489
<b>E.</b> 1485 + 806	<b>F.</b> 3609 <b>G.</b> 7423 <b>H.</b> 8001 + 4293 + 1788 + 1012
5. Nisha and Fern solv work.	ved a problem using paper and pencil. Here is th
Nisha's solution	n Fern's solution
435	435
+ 168 603	+ 168
	90
	+ 500 603
Compare the two p	pencil-and-paper solutions. Explain what Nisha a

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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:

3208
+ 5732
10
30
+ 8000
+ 8000
8940
Compact:
$320^{1}8$
+ 5732
8940

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

C.

# Answer Key • Lesson 5: Addition with Larger Numbers

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Homewo Questio	ork (SG p. 1 ns 1–7	45)			
$\begin{array}{c} 1. & \frac{+1}{2} \\ \frac{+1}{2} \\ \frac{+}{2} \end{array}$	732 197 300 120 9 929				
2. A.	379 + 613 900 80 12 992	B. $543 + 182$ 5 120 600 725			
C.	$ 418 \\ + 824 \\ 1200 \\ 30 \\ 12 \\ 1242 $	D. $328 + 593 - 800 - 110 - 11 - 921$			

( (Homework ) Tom was working on the problem below when the fire alarm rang. Finish his problem using the all-partials method. 732 + 197 800 120 +\_\_\_\_ 2. Use Tom's all-partials method to solve these problems. Check to see if your answer is reasonable. **C.** 418 A. 379 **B.** 543 D. 328 + 593 + 613 + 182 + 824 3. Explain an estimation strategy that shows your answer to Question 2D is reasonable. 4. Maruta started the problem below. Finish it using 1 1 654 the compact method. + 879 33 5. Why did Maruta put a 1 above the 6? 6. Use Maruta's compact method to solve these problems. Check to see if your answer is reasonable. 84 **B.** 417 **C**. 928 Α. **D.** 3926 28 + 434 + 4645 + 329 + 72 E. Explain an estimation strategy that shows your answer to Question 6C is reasonable. 7. Solve these problems. Use the Addition Strategies Menu in the Reference section to choose a method. **A.** 268 **B.** 409 C. 5617 **D.** 6891 + 359 + 312 + 2193 + 2534  $\ensuremath{\textbf{E}}.$  Explain an estimation strategy that shows your answer to Question 7A is reasonable. SG · Grade 3 · Unit 6 · Lesson 5 145 Addition with Larger Numbers

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- **3.** I used friendly numbers. 328 is close to 300. 593 is close to 600, 300 + 600 = 900, 921 is a reasonable answer.
- 4. 11 654 + 879 1533
- 5. Maruta traded 13 tens for 1 hundred and 3 tens. The one means 100.
- 6. A.

1	В.	1
84		417
28		+ 329
+ 72		746
184		,

C. 1 928	<b>D.</b> <sup>1</sup> <sup>1</sup> 3926
+ 434	+ 4645
1362	8571

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

**7.** Methods will vary.

A. $268 + 359 - 627$	B.	$409 \\ + 312 \\ \hline 721$
C. 5617 + 2193 10 100 700 + 7000 7810	D.	<sup>1</sup> 1 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.