Student Guide

Close Enough! (SG pp. 133–134) Questions 1–7

 Ves. Possible response: Add the hundreds: 200 + 300 + 400 = 900. Then estimate the tens: 47 plus 57 plus 22 is more than 100. 900 + 100 = 1000



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Jse strat 5. 6. 7.	the number egy. About how The coach 100 bottles Each Linco many did t	rs in the table to many students a bought bottles or s. How many crat- oln School studen hey have?	solve these problems. Ittended sports day last f water. The bottles came es did she need for all th t wore two blue wrist ba	Show your year? e in crates of e schools? nds. About how	
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Jse f	the number egy.	rs in the table to	solve these problems.	Show your	
		Lincoln	365		
		Clark	542		
		Bessie Coleman	312		
		School	Number of Students		
V	or tell how Check-In: The coach for last yea	you decided. : Questions 5- from Lincoln Sch Ir. He put the data	7 nool looked at the sport's a in the table below.	day attendance	
4.	The studer Each bus h	nts from Lincoln a nolds 50 students	nd Clark Schools are co . How many buses will the	ming in buses. ney need? Show	
Ð	(plot				
3.	All the third-grade classes at Bessie Coleman School are taking part in the sports day. Each student will wear a green headband. There are 26 students in Mrs. Hunters class, 23 students in Mr. Martin's class, and 19 students in Ms. Alfonso's class. If the school bought 80 headbands, will there be enough? How do you know?				
_	words to help you.				
	Sara's. Work with a partner. Describe what you think they are thinking. You may use numbers, number lines, pictures, base-ten shorthand, or				

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2.* Possible response for Carla's strategy: Carla started with front end estimation by adding the hundreds. That would be like adding 2 flats + 4 flats + 3 flats.



Then she thought about the rest of the numbers and estimated that the sum of these numbers would be more than 100 so the total would be over 1000. She might have rounded 47 up to 50, 57 up to 60, and 22 down to 20 and then added 5 skinnies + 6 skinnies + 2 skinnies.

When she added the flats and skinnies, it would be 1030.

Possible response for Levi's estimation strategy: Levi rounded the numbers up, then added, and then used estimation. He rounded 247 up to 250 and 457 to 460. To add 460 + 250 he could think about 100s and 50s. 400 + 50 + 10 + 200 + 50 = 600 + 100 + 10= 710. To add 710 + 322, he could think 700 + 300 + 10 + 22 which is about 1000 + 30 or 1030.

Possible response for Sara's strategy: Sara used rounding to the hundreds. First she rounded 247 to 200 and then she rounded 457 to 500. She started at 200 on the number line and moved 500 to get 700. Then Sara moved forward 300 more and then 22 more to get to 1022.



- **3.** Yes. Possible response: 26 and 23 are both close to 25 and 19 is close to 20. When I add 25 + 25 + 20 that equals 70, so 80 headbands will be enough.
- 4.* 16 or 17 buses are reasonable estimates. Possible response: I estimated that Clark School will need 10 buses because I rounded 457 up to 500. Lincoln School will need 7 buses because you have to have 6 buses for 300 students and then 1 more for the extra 22 students.
- 5. About 1200. Possible response: First I added all of the hundreds, 300 + 300 + 500 = 1100. Then I thought that 12 + 42 + 65 would be a little more than 100 so I added 1100 + 100.
- **6.** 13 cases. When I estimated, I found there were more than 1200 kids, so you have to order 13 cases. If you order only 12, some kids would not get a water bottle.
- 7. 750 would be one possible estimate.

Answer Key • Lesson 3: Close Enough!

Homework (SG p. 135) Questions 1–5

- 1. 300. Possible response: If you add just the hundreds, the answer is 200. But each number is close to 150, so if you add on the extra 50s, it is closer to 300.
- **2.** 1300 square centimeters. 35 + 73 is a little over 100. 1200 sq cm plus 100 square centimeters is 1300 sq cm.
- Yes, there will be enough seats. Rosa and Kim sold about 400 tickets. Emily sold about 130 more. Altogether they sold about 530 tickets.
- **4.** No. If you add just the hundreds, the total is 500 cm, so it is not long enough.
- **5. A.** The two classes brought in about 400 430 cookies.
 - **B.** Yes. Because the number of cookies Mrs. Hunter's class first brought in is almost 200. A hundred more cookies would make Mrs. Hunter's class total closer to 300.



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Answer Key • Lesson 3: Close Enough!



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Student Activity Book

Rounding Numbers (SAB pp. 181–182) Questions 1–3

I. 7	25 36	87	102 112	150 160	177 198
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0	50		100	150	200

2.		Number	Closest 10	Closest 100
	A.*	87	90	100
	В.	36	40	
	C.*	25	20 or 30	
	D.	160	160	200
	E.	150	150	100 or 200

	Number	Closest 10	Closest 100
F.	112	110	100
G.	198	200	200
Н.	102	100	100
Ι.	7	10	
J.	177	180	200

3.

	Number	Closest 10	Closest 100
A.	284	280	300
В.	128	130	100
C.	421	420	400
D.	910	910	900
E.	203	200	200
F.	85	80 or 90	100
G.	550	550	500 or 600
Н.	805	800 or 810	800
Ι.	369	370	400
J.	1502	1500	1500

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 $^{\star}\mbox{Answers}$ and/or discussion are included in the lesson.

Answer Key • Lesson 3: Close Enough!

Rounding Numbers (SAB p. 183) Homework Questions 1–2

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 191
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	Number	Closest 10	Closest 100
Α.	228	230	200
В.	309	310	300
C.	299	300	300
D.	72	70	100
E.	240	240	200

	Number	Closest 10	Closest 100
F.	391	390	400
G.	349	350	300
Н.	214	210	200
I.	150	150	100 or 200
J.	191	190	200



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Teacher Guide

Places Please (TG p. 1–2) Questions 1–5

Possible methods are shown.

$$\begin{array}{r} \textbf{1.} \quad 45 = 40 + 5 \\ + 37 = 30 + 7 \\ \hline \hline 70 + 12 = 82 \end{array}$$

24

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- **3.** Answers will vary. Possible response: They did not make enough. I estimated with friendly numbers: 125 + 200 + 150 = 475
- 4. A.

<+



В.	Number	Closest 10	Closest 100
	67	70	100
	24	20	
	183	180	200

67

+ + ++

50

	Number	Closest 10	Closest 100
	147	150	100
ſ	119	120	100
	96	100	100

