## Student Guide

Close Enough! (SG pp. 133-134)

## Questions 1-7

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


Student Guide - Page 133
2. Choose one of the three estimation strategies: Carla's, Levi's, or Sara's. Work with a partner. Describe what you think they are thinking. You may use numbers, number lines, pictures, base-ten shorthand, or words to help you.
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?
 Each bus holds 50 students. How many buses will they need? Show or tell how you decided.
Check-In: Questions 5-7
The coach from Lincoln School looked at the sport's day attendance for last year. He put the data in the table below.

| School | Number of Students |
| :--- | :---: |
| Bessie Coleman | 312 |
| Clark | 542 |
| Lincoln | 365 |

Use the numbers in the table to solve these problems. Show your strategy.
5. About how many students attended sports day last year?
6. The coach bought bottles of water. The bottles came in crates of 100 bottles. How many crates did she need for all the schools?
7. Each Lincoln School student wore two blue wrist bands. About how many did they have?

134 SG. Grade 3• Unit 6. Lesson 3

## Student Guide - Page 134

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.

$$
\|\|11+\|\|\|+\|=130
$$

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 100 s and 50 s. $400+50+10+200+50=600+100+10$ $=710$. 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.

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

Homework (SG p. 135) Questions 1-5
I. 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 50 s, 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 .
3. 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 .


Student Guide - Page 135


Student Activity Book - Page 181


## Student Activity Book - Page 182

## Student Activity Book

## Rounding Numbers (SAB pp. 181-182)

## Questions 1-3

I.

2.

|  | Number | Closest <br> $\mathbf{1 0}$ | Closest <br> $\mathbf{1 0 0}$ |
| :---: | :---: | :---: | :---: |
| A.* | 87 | 90 | 100 |
| B. | 36 | $\mathbf{4 0}$ |  |
| C. | 25 | $\mathbf{2 0}$ or $\mathbf{3 0}$ |  |
| D. | 160 | $\mathbf{1 6 0}$ | $\mathbf{2 0 0}$ |
| E. | 150 | $\mathbf{1 5 0}$ | $\mathbf{1 0 0}$ or $\mathbf{2 0 0}$ |


|  | Number | Closest <br> $\mathbf{1 0}$ | Closest <br> $\mathbf{1 0 0}$ |
| :---: | :---: | :---: | :---: |
| F. | 112 | $\mathbf{1 1 0}$ | $\mathbf{1 0 0}$ |
| G. | 198 | $\mathbf{2 0 0}$ | $\mathbf{2 0 0}$ |
| H. | 102 | $\mathbf{1 0 0}$ | $\mathbf{1 0 0}$ |
| I. | 7 | $\mathbf{1 0}$ |  |
| J. | 177 | $\mathbf{1 8 0}$ | $\mathbf{2 0 0}$ |

3. 

|  | Number | Closest <br> 10 | Closest <br> 100 |
| :---: | :---: | :---: | :---: |
| A. | 284 | 280 | 300 |
| B. | 128 | $\mathbf{1 3 0}$ | $\mathbf{1 0 0}$ |
| C. | 421 | $\mathbf{4 2 0}$ | $\mathbf{4 0 0}$ |
| D. | 910 | $\mathbf{9 1 0}$ | $\mathbf{9 0 0}$ |
| E. | 203 | $\mathbf{2 0 0}$ | $\mathbf{2 0 0}$ |
| F. | 85 | $\mathbf{8 0}$ or 90 | $\mathbf{1 0 0}$ |
| G. | 550 | $\mathbf{5 5 0}$ | $\mathbf{5 0 0}$ or $\mathbf{6 0 0}$ |
| H. | 805 | $\mathbf{8 0 0} \mathbf{~ o r ~ 8 1 0 ~}$ | $\mathbf{8 0 0}$ |
| I. | 369 | $\mathbf{3 7 0}$ | $\mathbf{4 0 0}$ |
| J. | 1502 | $\mathbf{1 5 0 0}$ | $\mathbf{1 5 0 0}$ |

*Answers and/or discussion are included in the lesson.
4 TG • Grade $3 \cdot$ Unit $6 \cdot$ Lesson 3 • Answer Key

Rounding Numbers (SAB p. 183)
Homework

## Questions 1-2

I.

2.

|  | Number | Closest <br> 10 | Closest <br> 100 |
| :---: | :---: | :---: | :---: |
| A. | 228 | 230 | 200 |
| B. | 309 | 310 | 300 |
| C. | 299 | 300 | 300 |
| D. | 72 | 70 | 100 |
| E. | 240 | 240 | 200 |


|  | Number | Closest <br> 10 | Closest <br> 100 |
| :---: | :---: | :---: | :---: |
| F. | 391 | 390 | 400 |
| G. | 349 | 350 | 300 |
| H. | 214 | 210 | 200 |
| I. | 150 | 150 | 100 or 200 |
| J. | 191 | 190 | 200 |



Student Activity Book - Page 183

## Places Please

1. Ms. Alfonso's class put on a play called " 500 Hats." Ana sold 45 tickets and Shannon sold 37 . How many did they sell altogether? Show or tell how you know.
2. Check your answer to Question 1 by solving it another way. Show your method.
3. Three groups made hats for the play. The numbers of hats they made are in the table below. They needed 500 hats. Did they make enough? How do you know?

| Group | Number of Hats |
| :---: | :---: |
| Group A | 125 |
| Group B | 198 |
| Group C | 151 |

Assessment Master
TG $\cdot$ Grade 3 $\cdot$ Unit $6 \cdot$ Lesson 3
Teacher Guide - Page 1


Teacher Guide - Page 2

## Teacher Guide

Places Please (TG p. 1-2)
Questions 1-5
Possible methods are shown.
I. $45=40+5$
$+37=30+7$
$70+12=82$
2.

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

B.

| Number | Closest <br> $\mathbf{1 0}$ | Closest <br> $\mathbf{1 0 0}$ |
| :---: | :---: | :---: |
| 67 | $\mathbf{7 0}$ | $\mathbf{1 0 0}$ |
| 24 | $\mathbf{2 0}$ |  |
| 183 | $\mathbf{1 8 0}$ | $\mathbf{2 0 0}$ |


| Number | Closest <br> $\mathbf{1 0}$ | Closest <br> $\mathbf{1 0 0}$ |
| :---: | :---: | :---: |
| 147 | $\mathbf{1 5 0}$ | $\mathbf{1 0 0}$ |
| 119 | $\mathbf{1 2 0}$ | $\mathbf{1 0 0}$ |
| 96 | $\mathbf{1 0 0}$ | $\mathbf{1 0 0}$ |

5. 



