

Student Guide











Workshop: Large Numbers


Questions 1–5 (SG pp. 245–246)

1. Answers will vary.
2. Responses will vary. Possible responses may include that bigger cities don't necessarily have bigger stadiums, or that the biggest stadiums are football stadiums, while Olympic stadiums are the second biggest, and baseball stadiums are the smallest.
3. **A.** Michigan Stadium; football
B. 107,501
C. Ann Arbor, Michigan; 114,386
4. **A.** U.S. Cellular Field; Chicago White Sox
B. 40,615
C. Chicago, Illinois; 2,853,114
- 5.* No, because the exact number of people who live in a city changes every day.

Workshop: Large Numbers

Stadiums, Teams, and Cities Table

| Stadium | Team | Number of Seats | Location | Population of City |
|-----------------------------|--|-----------------|------------------------|--------------------|
| A. Estadio do Maracana | 2016 Olympic Teams  | 88,992 | Rio de Janeiro, Brazil | 16,140,000 |
| B. Beijing National Stadium | 2008 Olympic Teams  | 91,000 | Beijing, China | 16,850,000 |
| C. Beaver Stadium | Penn State Nittany Lions  | 107,282 | State College, PA | 39,419 |
| D. Kinnick Stadium | Iowa Hawkeyes  | 70,585 | Iowa City, IA | 67,831 |
| E. Memorial Stadium | Illinois Fighting Illini  | 70,984 | Champaign, IL | 79,389 |
| F. Michigan Stadium | Michigan Wolverines  | 107,501 | Ann Arbor, MI | 114,386 |
| G. Ohio Stadium | Ohio State Buckeyes  | 102,329 | Columbus, OH | 754,885 |
| H. U.S. Cellular Field | Chicago White Sox  | 40,615 | Chicago, IL | 2,853,114 |
| I. Wrigley Field | Chicago Cubs  | 41,160 | Chicago, IL | 2,853,114 |
| J. Yankee Stadium | New York Yankees  | 52,325 | New York, NY | 8,363,710 |

Discuss 

1. **A.** How many students go to your school?
B. How many people live in your city or town?
C. How many people live in the largest city in your state?
2. Study the table with a partner. Find two facts that are interesting to you about the numbers in the table.
3. **A.** Which stadium is the largest? What sport is played there?
B. How many seats are in the stadium?
C. Where is the stadium? How many people live in that city?

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Workshop: Large Numbers SG • Grade 4 • Unit 6 • Lesson 7 245

Student Guide - Page 245

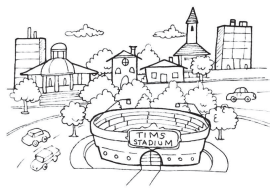
Homework

Questions 1–5 (SG p. 246)

1. **A.** Fifty-two thousand, three hundred twenty-five.
B. Two million, eight hundred fifty-three thousand, one hundred fourteen.
C. Eighty-eight thousand, nine hundred ninety-two.
2. **A.** Beaver Stadium and Kinnick Stadium.
B. Beaver Stadium and Michigan Stadium or Kinnick Stadium and Memorial Stadium.
3. **A.** 39,000
B. 40,000
4. About 11,000. $52,000 - 41,000 = 11,000$.
5. U.S. Cellular Field, Wrigley Field, and Yankee Stadium.

4. **A.** Which stadium is the smallest? Which team plays there?
B. How many seats are in the stadium?
C. Where is the stadium? How many people live in that city?

The job of the U.S. Census Bureau is to collect data about the people in the United States. The populations of the U.S. cities in the table are from the U.S. Census Bureau. They are estimates for the number of people who lived in the cities in 2008.



5. Do you think you can know the exact number of people who live in a city? Why or why not?

Use the *Moving Ahead with Large Numbers Workshop Menu* page in the *Student Activity Book* to practice working with large numbers.

Homework

Use the data in the Stadiums, Teams, and Cities Table to answer the questions below.

1. Write the following numbers in words:
 - A.** The number of seats in Yankee Stadium.
 - B.** The number of people who live in Chicago.
 - C.** The number of seats in Estadio do Maracana.
2. **A.** Which stadiums have more seats than the number of people who live in the city?
B. Which two football stadiums have about the same number of seats?
3. **A.** Round the population of State College, Pennsylvania to the nearest thousand.
B. Round this population to the nearest ten thousand.
4. About how many more seats are in Yankee Stadium than Wrigley Field?
5. The first Olympic Games were held over 2000 years ago in Olympia, Greece. The stadium where the games were held could hold 45,000 people. Which stadiums have about the same number of seats as the ancient stadium in Olympia?

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246 SG • Grade 4 • Unit 6 • Lesson 7 Workshop: Large Numbers

Student Guide - Page 246

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

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Showing Large Numbers

★1. Use the Stadiums, Teams, and Cities Table in the Student Guide to fill in the populations in the place value chart. The first one is an example.

| City | Millions | Thousands | Ones |
|-----------------------------|----------|-----------|------|
| Rio de Janeiro, Brazil | 1 | 6 | 0 |
| Beijing, China | | | |
| State College, Pennsylvania | | | |
| Champaign, Illinois | | | |
| Chicago, Illinois | | | |

★2. Write in words the population of the smallest city in the place value chart.

★3. Write in words the population of the largest city in the place value chart.

Workshops: Large Numbers SAB - Grade 4 • Unit 6 • Lesson 7 205

Student Activity Book - Page 205

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Use the Stadiums, Teams, and Cities Table in the Student Guide to complete the tables below.

★4. Complete the table using the number of seats in each stadium. The first one is an example.

| Stadium | Number Sentence for Expanded Form | Number of Seats | Words |
|---------------------|--|-----------------|--|
| Estadio do Maracana | $88,992 = 80,000 + 8,000 + 900 + 90 + 2$ | | Eighty-eight thousand, nine hundred ninety-two |
| Beaver Stadium | | | |
| Kinnick Stadium | | | |
| Wrigley Field | | | |

Find n to make each number sentence true in Questions 5-9.

★5. $52,325 = 50,000 + 2000 + n + 20 + 5$ $n =$ _____

★6. $40,000 + 1000 + 100 + n = 41,160$ $n =$ _____

★7. $n + 7000 + 200 + 80 + 2 = 107,282$ $n =$ _____

★8. $2,000,000 + 800,000 + n + 3000 + 100 + 10 + 4 = 2,853,114$ $n =$ _____

★9. $16,000,000 + n + 40,000 = 16,140,000$ $n =$ _____

206 SAB - Grade 4 • Unit 6 • Lesson 7 Workshops: Large Numbers

Student Activity Book - Page 206

Student Activity Book

Moving Ahead with Large Numbers

Questions 1–25 (SAB pp. 205–210)

1.

| City | Millions | Thousands | Ones |
|-----------------------------|----------|-----------|------|
| Rio de Janeiro, Brazil | 1 | 6 | 0 |
| Beijing, China | 1 | 6 | 8 |
| State College, Pennsylvania | | | 3 |
| Champaign, Illinois | | | 7 |
| Chicago, Illinois | 2 | 8 | 5 |

- Thirty-nine thousand, four hundred nineteen.
- Sixteen million, eight hundred fifty thousand.
-

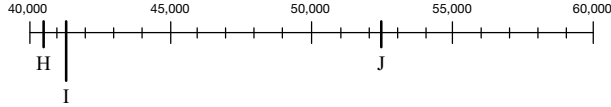
| Stadium | Number of Seats | |
|---------------------|--|--|
| | Number Sentence for Expanded Form | Words |
| Estadio do Maracana | $88,992 = 80,000 + 8,000 + 900 + 90 + 2$ | Eighty-eight thousand, nine hundred ninety-two |
| Beaver Stadium | $107,282 = 100,000 + 7,000 + 200 + 80 + 2$ | One hundred seven thousand, two hundred eighty-two |
| Kinnick Stadium | $70,585 = 70,000 + 500 + 80 + 5$ | Seventy thousand, five hundred eight-five |
| Wrigley Field | $41,160 = 40,000 + 1,000 + 100 + 60$ | Forty-one thousand, one hundred sixty |

- 300
- 60
- 100,000
- 50,000
- 100,000

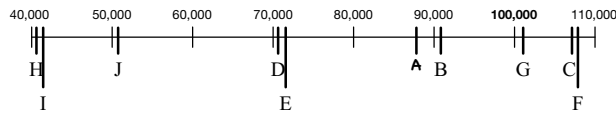
10.

| City | Population | |
|--------------------|---|--|
| | Number Sentence for Expanded Form | Words |
| Columbus, Ohio | $754,885 = 700,000 + 50,000 + 4,000 + 800 + 80 + 5$ | Seven hundred fifty-four thousand, eight hundred eighty-five |
| Iowa City, Iowa | $67,831 = 60,000 + 7,000 + 800 + 30 + 1$ | Sixty-seven thousand, eight hundred thirty-one |
| New York, New York | $8,363,710 = 8,000,000 + 300,000 + 60,000 + 3,000 + 700 + 10$ | Eight million, three hundred sixty-three thousand, seven hundred ten |

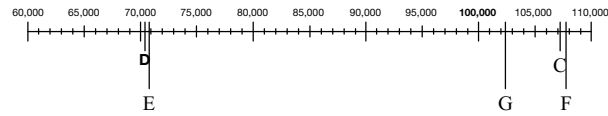
11.



12.



13.



14. D. Kinnick Stadium
 E. Memorial Stadium
 G. Ohio Stadium
 C. Beaver Stadium
 F. Michigan Stadium

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Check-In: Question 10

★ 10. Complete the table below using the populations of cities. Follow the example in Question 4 above.

| City | Number Sentence for Expanded Form | Words |
|--------------------|-----------------------------------|-------|
| Columbus, Ohio | | |
| Iowa City, Iowa | | |
| New York, New York | | |

Comparing Large Numbers

Use the Stadiums, Teams, and Cities Table in the Student Guide to complete the number lines.

★ 11. Locate the numbers of seats for the three baseball stadiums on the number line below. Label your marks with the correct letter H, I, and J.

Workshop: Large Numbers SAB • Grade 4 • Unit 6 • Lesson 7 207

Student Activity Book - Page 207

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Use the Stadiums, Teams, and Cities Table in the Student Guide to complete the number lines.

★ 12. Locate the numbers of seats in each stadium on the number line below. Label your marks with the letter in the table for each stadium. The first one is an example.

Check-In: Questions 13-14

★ 13. Locate the number of seats for the five football stadiums on the number line below. Label your marks with the correct letter C, D, E, F, and G or the names of the stadiums.

★ 14. Write the names of the football stadiums in order from the smallest to largest number of seats.

208 SAB • Grade 4 • Unit 6 • Lesson 7 Workshop: Large Numbers

Student Activity Book - Page 208

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Use the number line above to round each number in Questions 15–18. The first one is an example.

| | | |
|-------------------------|---------------------------|----------------------------|
| Nearest 1000 107,000 | Nearest 10,000 110,000 | Nearest 100,000 100,000 |
| Ex. 107,282 | | |
| ★ ■ 15. 106,201 | | |
| ★ ■ 16. 102,329 | | |
| ● ■ 17. 70,586 | Nearest 5000 | Nearest 10,000 |
| ★ ■ 18. 62,872 | | |

Questions 19–20 can be solved using the number line in Question 13.

★ ■ 19. About how many more people can sit and watch a game in Memorial Stadium than Kinnick Stadium?

★ ■ 20. Estimate the difference between the number of seats in Beaver Stadium and Kinnick Stadium.

Workshop: Large Numbers SAB • Grade 4 • Unit 6 • Lesson 7 209

15. 106,000; 110,000; 100,000
16. 102,000; 100,000; 100,000
17. 71,000; 70,000; 70,000
18. 63,000; 65,000; 60,000
19. About 400 people.
20. About 35,000 seats
21. About 82,000 people;
 $41,000 + 41,000 = 82,000$
22. About 680,000 people;
 $750,000 - 70,000 = 680,000$
23. About 5,000,000 people;
 $8,000,000 - 3,000,000 = 5,000,000$
24. **A.** About 170,000 people;
 $100,000 + 70,000 = 170,000$
B. About 30,000 people.
 $100,000 - 70,000 = 30,000$
25. About 77,000,000 people.
 $99,000,000 - 22,000,000 = 77,000,000$

Student Activity Book - Page 209

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Choose tools to help you answer Questions 21–25. You may use the Stadiums, Teams, and Cities table in the Student Guide, number lines in Questions 11–13, and rounded numbers.

★ ■ 21. About how many people can watch baseball games at U.S. Cellular Field and Wrigley Field at the same time? Write a number sentence to show how you made your estimate.

● ■ 22. About how many more people live in Columbus than Iowa City?

● ■ 23. About how many more people live in New York than Chicago?

✓ **Check-In: Questions 24**

★ ■ 24. **A.** College football games are often played on Saturday afternoons. About how many people can attend games in Ohio Stadium and Kinnick Stadium on the same afternoon? Show or tell how you know.
B. About how many more people can attend a game in Ohio Stadium than Kinnick Stadium?

■ 25. The number of people who watched the Super Bowl on television on February 1, 2012 was 98,732,000. The number of people who watched the last baseball game of the 2012 World Series was 22,539,000. Estimate the difference in the number of people that watched the two games. Show or tell how you know.

210 SAB • Grade 4 • Unit 6 • Lesson 7 Workshop: Large Numbers

Student Activity Book - Page 210