

## Chapter 4 Project

# Take Me Out to the Ball Game!

An activity to demonstrate the use of percents and percent increase or decrease in real life.

The Atlanta Braves baseball team has been one of the most popular baseball teams for fans, not only from Georgia, but throughout the Carolinas and the southeastern United States. The Braves franchise started playing at the Atlanta-Fulton County Stadium in 1966 and this continued to be their home field for 30 years. In 1996, the Centennial Olympic Stadium that was built for the 1996 Summer Olympics was converted to a new ballpark for the Atlanta Braves. The ballpark was named Turner Field and was opened for play in 1997. In 2017, the Braves moved to a new stadium named SunTrust Park.

Round all percents to the nearest whole percent.

1. The Atlanta-Fulton County Stadium had a seating capacity of 52,769 fans. Turner Field had a seating capacity of 50,096. SunTrust Park has a seating capacity of 41,149.
  - a. Determine the decrease in seating capacity between Turner Field and the original Braves stadium.
  - b. Determine the percent decrease in seating capacity between SunTrust Park and Turner field.
2. The Centennial Olympic Stadium had approximately 85,000 seats. Some of the seating was removed in order to convert it to the Turner Field ballpark. Rounding the number of seats in Turner Field to the nearest thousand, what is the approximate percent decrease in seating capacity from the original Olympic stadium?
3. When Turner Field opened in 1997, the average attendance at an Atlanta Braves game was 42,771. In 2016 the average attendance was 24,950. What is the percent decrease in attendance from 1997 to 2016? <sup>1</sup>
4. The highest average attendance for the Braves was 47,960 in 1993 at the Atlanta-Fulton County Stadium. The lowest average attendance was 6642 in 1975 at the Atlanta-Fulton County Stadium. What is the percent increase from the lowest attendance to the highest? <sup>2</sup>
5. Chipper Jones, a popular Braves third baseman, retired in July 2013. He started his career with the Braves in 1993 at the age of 21. <sup>3</sup>
  - a. In 2001, Chipper had 189 hits in 572 at-bats. Calculate Chipper's batting average for the season by dividing the number of hits by the number of at-bats. Round to the nearest thousandth.
  - b. In 2008, Chipper had 160 hits in 439 at-bats. Calculate Chipper's batting average for the season by dividing the number of hits by the number of at-bats. Round to the nearest thousandth.
  - c. Calculate the percent change in Chipper's batting average from 2001 to 2008.
  - d. Does this represent a percent increase or decrease?
6. In 2001, Chipper had 102 RBIs (runs batted in). In 2008, Chipper had only 75 RBIs.
  - a. Calculate the percent change in RBIs from 2001 to 2008.
  - b. Does this represent a percent increase or decrease?

<sup>1</sup> Source: baseball-almanac.com

<sup>2</sup> Source: baseball-almanac.com

<sup>3</sup> Source: espn.go.com