

Name: \_\_\_\_\_  
Teacher: \_\_\_\_\_  
Class/ Block: \_\_\_\_\_  
Date: \_\_\_\_\_

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### Unit 1 Lesson 5: Weighted Averages in Sports

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Please answer each question. Clearly identify your final answer!!  
No work or explanation = No Credit

#### SLUGGING AVERAGE:

1. Chipper Jones set a record for slugging average during his rookie year with the Atlanta Braves. He pounded 180 hits in 425 at-bats. His hits consisted of 75 singles, 33 doubles, 13 triples, and 59 home runs. Find the slugging average.
2. Babe Ruth set a record for slugging average that stood for more than 80 years. In 1920, Ruth pounded 172 hits in 458 at-bats. His hits consisted of 73 singles, 36 doubles, triples, and 54 home-runs. Find the following:
  - a) Determine the number of triples Babe Ruth had in 1920.
  - b) What is his batting average?
  - c) What is slugging average?
3. Sammy Sosa has the following stats for his 2008 season: he pounded 172 hits in 458 at-bats, which consisted of singles, 54 doubles, 16 triples, and 27 home-runs. Find the following:
  - a) Find the slugging average.
4. Richard, the third baseman for South Cobb's baseball team, really wants to become a professional baseball player. His stats are as follows: 98 hits in 230 at-bats which consisted of 47 singles, 19 doubles, 13 triples, and 19 home runs. Over the next 5 games, he has an additional 23 at-bats, 3 singles, 2 doubles, 5 triples, and a home run. What's his current slugging average?

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## Quarterback Ratings:

5. Peyton Manning, the best quarterback **EVER**, has the following stats as of week 8 in the season: 215 completed passes, 69 touchdowns, 25 incomplete passes, NO INTERCEPTIONS, and a total of 5,138 yards gained. Over the rest of the season, he completed 71 passes, 18 touchdowns, 23 incomplete passes, STILL NO INTERCEPTIONS, and gained 3,583 yards. Find Manning's percent of completion.
  
6. As of 2009, Steve Young has the highest career quarterback rating in NFL history. He completed 2,059 passes in 3,192 attempts for a total of 25,479 yards, with 174 touchdowns and 85 interceptions. Find Young's career percent of touchdowns.
  
7. Take a look at the stats for Green Bay Packers Aaron Rodger's 2009 season. He has 64.7% completed passes for a total of 350 completed passes, 4,434 total yards gained, and 30 touchdowns, and 2 interceptions. Find his percent of interceptions **and** average yards gained.
  
8. For the first two games of the 2008 season, Dallas Cowboys quarterback Tony Romo completed 45 passes in 62 attempts for a total of 632 yards, with 4 touchdowns and 2 interceptions. Verify that Romo's quarterback rating for those games is approximately 113. Round each value to the nearest tenth.
  
9. Given the following specifications for a recently purchased tire, P280/70R17;
  - A. Determine the entire diameter and circumference of the tire (includes the rim plus the rubber in inches).

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B. You're recently pulled over by the police for allegedly speeding, If the circumference of the previous tires was 91.35, what speed were you actually going if your speedometer reading was 55 mph?