***Chapter 8: Standardized Scores & Normal Distributions Reading Guide***

**Vocabulary**:

1. Standardized Score:
2. Z-score

**Reading & Comprehension**:

**Touchdowns and Interceptions**:

1. What quarterback are they emphasizing in this example? What does this quarterback do so well, or not so good?
2. How does it tell me to calculate the standardized score for this quarterack
3. How d
4. What were the names of the two players (and what teams did they play for) that was being emphasized during the first part of Chapter 8?
5. *How do we* ***Standardize Statistics***? Answer this question by answering the questions below concerning the Major League Baseball players Ichiro and Dunn:
   1. What was the batting average of *Ichiro* during the 2009 season?
   2. Explain in ***the Most Detail you can***: *What does the number “0.082”* represent for Ichiro, how did they calculate it?
   3. What are they talking about when they say, “…we will compare these deviations from the mean to the *typical* distance from the mean…”. What are they referring to by saying “***typical distance***”? (*Again, be detailed in your answer*)
   4. How did they determine how far **Ichiro’s** **PERFORMANCE** was *above the mean*?
   5. Also, how did they then calculate ***how many Standard Deviations Ichiro’s PERFORMANCE*** was above the mean?
   6. How many HR’s did *Dunn* have during the 2009 season?
   7. Explain in ***the Most Detail you can***: *What does the number “22.7”* represent for Dunn, and how did they calculate it?
   8. How did they determine how far **Dunn’s** **PERFORMANCE** was *above the mean*?
   9. Also, how did they then calculate ***how many Standard Deviations Dunn’s PERFORMANCE*** was above the mean?
   10. (***Bonus Question***): When the book says: “*Now, that we are measuring the* ***PERFORMANCES*** *on the same scale…”* ***What “Scale” are they referring to?***