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***  Examples of How To Compute Offensive and Defensive Averages
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     Ted Williams (Boston Red Sox, 1939-1960) had these career totals:

      At                                    Home Total  Sac  Put-
     Bats Hits   BB HBP   1B   2B   3B Runs Bases  Fly  outs Asst Errs
     ---------------------------------------------------------------
     7706 2654 2021  39 1537  525   71  521  4884   20  4158  140  113

***  Total Bases:  Singles   1B    1537 x 1 = 1537 Bases
                   Doubles   2B     525 x 2 = 1050   "
                   Triples   3B      71 x 3 =  213   "
                   Homers    HR     521 x 4 = 2084   "
                   ----------------------------------
                       Total Hits  2654       4884 Total Bases

***  Batting Average:  Ted Williams, Career

     Avg = (Hits / AB) = (2654 / 7706) = .344 Avg

***  Slugging Average:  Ted Williams, Career

     Slg% = (Total Bases / AB) = (4884 / 7706) = .634 Slg%

***  On Base Percentage:  Ted Williams, Career

           (Hits+BB+HBP)      (2654+2021+39)      4714
     OBP = ------------- = ----------------- = ---- = .482 OBP
           (AB+BB+HBP+SF)   (7706+2021+39+20)   9786

***  On Base plus Slugging (Production):  Ted Williams, Career

     OPS = (OBP + Slg%) = (.482 + .634) = 1.116 OPS

***  Fielding Average:  Ted Williams, Career

              (PO + A)          (4158 + 140)       4298
     Fld% = ---------- = ------------------ = ---- = .974 Fld%
            (PO + A + E)   (4158 + 140 + 113)   4411

***  Earned Run Average:  Randy Johnson, Arizona Diamondbacks, 2001

           (Earned Runs x Reg Innings)   (69 x 9)    621
     ERA = --------------------------- = -------- = ------ = 2.49 ERA
                  Innings Pitched          249.67    249.67

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