Estimated Quotients are Too Large or Too Small

Batting averages are used to determine how well a player performs at bat. To find a batting average, divide the number of hits by the number of times at bat.

**Divide to determine batting averages.**

1. Dugout Dan has 31 hits and 115 times at bat. What is his batting average?
   
   \[ \frac{31}{115} = \]

2. Pop-up Paul has 24 hits and 96 times at bat. What is his batting average?

3. Homerun Henry has 75 hits and 150 times at bat. Estimate his batting average and explain your reasoning.

4. Fastball Fran has had 100 times at bat and 31 hits. Estimate her batting average, then find the actual batting average.

5. If Line-drive Lewis hits 36 times out of 106 times at bat, and DJ Dividem hits 35 times out of 105 times at bat, what is the difference between their batting averages?

6. Sally Singleton’s batting average is 0.375 and she has been at bat 120 times. How many times has Sally hit the ball?