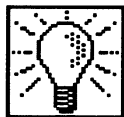
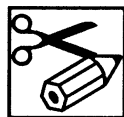


Hitting a Home Run

Leader



Determine the probability of getting a hit in baseball.



You will need:

- A record of a baseball player's past performance. Use a local team or a famous player past or present (e.g., Babe Ruth, Mickey Mantle, Hank Aaron, Jose Canseco)
- Calculator



Do this:

- Provide the student(s) with the player's past performance.
- Review with the student that the probability of the player getting a home run is: (based on past performance)

$$\text{Probability of a home run} = \frac{\text{number of home runs}}{\text{total times at bat}}$$



Newman, Claire M.; Obremski, Thomas E.; and Scheaffer, Richard L. *Exploring Probability*. (Quantitative Literacy Series), Dale Seymour Publications, 1987.

Student _____



Do this:

- Fill in the table.
- Use a calculator to divide each number by the total at bats to fill in the second column.

Player's Name:		
	Number	Decimal
Home runs		
Triples		
Doubles		
Singles		
Walks		
Sacrifices		
Outs		
Total at Bats		



1. What is the probability that he will get a home run on his next time at bat?
2. How many walks can he be expected to get out of 100 times at bat?
3. What is the probability that he will hit a single?
4. What is the probability of his getting a hit on his next time at bat?
5. What is the probability of his getting extra-base (double, triple, or home run) hit on his next time at bat?
6. What is the probability that he will get a hit on his next time at bat?
7. What is his batting average? (The batting average does not count walks or sacrifices as official times at bat.)



WHAT I FOUND