

# BASEBALL MATH *(cont.)*

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Per: \_\_\_\_\_

If you have ever watched or played in a baseball game, you have probably noticed that there are a lot of numbers involved. Think for a moment about what it would be like to play without using numbers. It would seem pretty strange, wouldn't it? For instance, how would you know how many outs there are, or how many runs were scored, or even who won? Baseball is packed full of numbers. Explore how numbers are used by completing the investigation that follows.

## Extra Bases

The distance from home plate to first base and between all the bases on a major league baseball field is equal to 90 feet.

1. When you hit a double, how far do you have to run?

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2. How much further is a triple than a single?

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3. When you hit a home run, how many times longer is that than a single?

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4. Write a number sentence showing that a double is  $\frac{1}{2}$  the distance of a home run.

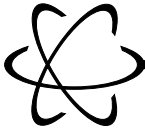
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5. Suppose during a game you hit a triple, single, and a home run. How far did those hits require you to run?

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# BASEBALL MATH *(cont.)*

## Going, Going, Gone

For each question, you are given a Web site that contains a player's statistics. Use the information from the Web sites to answer each question.

1. Find out how many home runs Ken Griffey, Jr. hit last year and write it below.

<http://www.teachercreated.com/books/2192>

Click on page 19, site 1

Number of home runs hit last year: \_\_\_\_\_

How many total feet did Ken Griffey, Jr. have to run last year from hitting home runs? Show your work below.

2. Find out how many home runs Sammy Sosa hit last year and write it below.

<http://www.teachercreated.com/books/2192>

Click on page 19, site 2

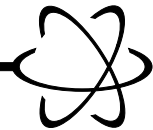
Number of home runs hit last year: \_\_\_\_\_

How many total feet did Sammy Sosa have to run last year from hitting home runs? Show your work below.

3. Using the results from questions one and two, determine which player ran further and write his name below. Then calculate how much further that player traveled than the other.

Player's name: \_\_\_\_\_

How much further did he travel? \_\_\_\_\_



# BASEBALL MATH *(cont.)*

4. Find out how many home runs Mark McGwire has hit in his career and write it below.

**<http://www.teachercreated.com/books/2192>**

**Click on page 20, site 1**

Total number of home runs hit: \_\_\_\_\_

How many total feet has Mark McGwire had to run in his career after hitting home runs? Show your work below.

5. Go to the Web site below and find out how many feet are in a mile. Use that information to calculate how many miles Mark McGwire has had to run in his career from hitting home runs. Show your work below.

**<http://www.teachercreated.com/books/2192>**

**Click on page 20, site 2**

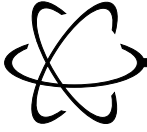
Number of feet in a mile: \_\_\_\_\_

Total home-run miles Mark McGwire has run: \_\_\_\_\_

6. Go to the first Web site below and find out how many kilometers it is from the earth to the moon. Go to the next Web site and convert that figure from kilometers to miles. Use that information to calculate how many home runs a player would have to hit in order to run a distance equal to the distance from the earth to the moon.

**<http://www.teachercreated.com/books/2192>**

**Click on page 20, sites 3, 4**



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# BASEBALL MATH *(cont.)*

Distance from the earth to the moon in kilometers: \_\_\_\_\_

Distance from the earth to the moon in miles: \_\_\_\_\_

Number of feet in one mile:

Number of feet in one home run:

Number of home runs per mile:

Number of home runs needed to equal the distance from the earth to the moon: \_\_\_\_\_