

QUADRATIC EQUATIONS AND FUNCTIONS

► *What is the path of a home run ball?*



CHAPTER

9

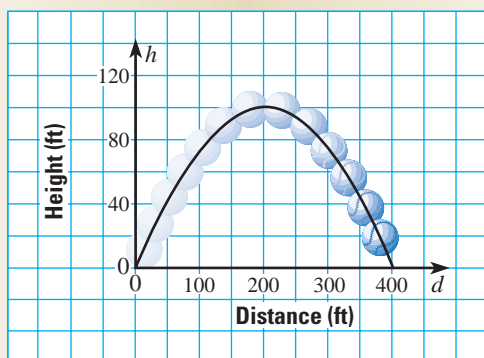
APPLICATION: Baseball

A batter usually scores a home run by hitting a ball over the outfield fence. Mathematical models can be used to find how long it takes for a baseball to reach the ground.

You'll use quadratic equations to solve different types of vertical motion problems in Chapter 9.

Think & Discuss

1. Use the graph to approximate the maximum height the ball reaches.
2. Use the graph to approximate the maximum horizontal distance it travels.



Learn More About It

You will use a quadratic model to learn more about the path of a ball in Exercise 84 on p. 538.



APPLICATION LINK Visit www.mcdougallittell.com for more information about baseball.