SOLVING LINEAR EQUATIONS

▶ *Why do you think the bald eagle was chosen as a national symbol?*

APPLICATION: Bald Eagles

A bald eagle is featured on the Great Seal of the United States. The bald eagle is considered a symbol of power, strength, grace, and freedom. These birds, found only in North America, can fly up to 30 miles per hour and dive at speeds up to 100 miles per hour.

To solve problems involving flying rates of bald eagles, you can use equations containing variables for distance, rate, and time. In Chapter 3 you will use linear equations to describe many real-world situations.

Think & Discuss

1. Find the distance a bald eagle can travel for the given flying rate and time.

Flying Rate (miles per hour)	Time (hours)	Distance (miles)
30	1	?
30	$\frac{1}{2}$	?
30	$\frac{1}{12}$	?

2. Rewrite the flying rate in miles per minute.

Learn More About It

You will use equations to find flying and diving times of bald eagles in Exercise 57 on p. 143.