

**Problem 2A****AVERAGE VELOCITY AND DISPLACEMENT****PROBLEM**

The fastest fish, the sailfish, can swim  $1.2 \times 10^2$  km/h. Suppose you have a friend who lives on an island 16 km away from the shore. If you send a message using a sailfish as a messenger, how long will it take for the message to reach your friend?

**SOLUTION**

**Given:**  $v_{avg} = 1.2 \times 10^2$  km/h  
 $\Delta x = 16$  km

**Unknown:**  $\Delta t = ?$

Use the definition of average speed to find  $\Delta t$ .

$$v_{avg} = \frac{\Delta x}{\Delta t}$$

Rearrange the equation to calculate  $\Delta t$ .

$$\Delta t = \frac{\Delta x}{v_{avg}}$$

$$\Delta t = \frac{16 \text{ km}}{\left(1.2 \times 10^2 \frac{\text{km}}{\text{h}}\right) \left(\frac{1 \text{ h}}{60 \text{ min}}\right)} = \frac{16 \text{ km}}{2.0 \text{ km/min}} \\ = \boxed{8.0 \text{ min}}$$

**ADDITIONAL PRACTICE**

1. The Sears Tower in Chicago is 443 m tall. Joe wants to set the world's stair climbing record and runs all the way to the roof of the tower. If Joe's average upward speed is 0.60 m/s, how long will it take Joe to climb from street level to the roof of the Sears Tower?
2. An ostrich can run at speeds of up to 72 km/h. How long will it take an ostrich to run 1.5 km at this top speed?
3. A cheetah is known to be the fastest mammal on Earth, at least for short runs. Cheetahs have been observed running a distance of  $5.50 \times 10^2$  m with an average speed of  $1.00 \times 10^2$  km/h.
  - a. How long would it take a cheetah to cover this distance at this speed?
  - b. Suppose the average speed of the cheetah were just 85.0 km/h. What distance would the cheetah cover during the same time interval calculated in (a)?

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