

Name _____ Class _____ Date _____

Skills Worksheet

Math Skills**Velocity**

After you study each sample problem and solution, work out the practice problems on a separate sheet of paper. Write your answers in the spaces provided.

Problem

Polar bears are extremely good swimmers and can travel as long as 10 hours without resting. If a polar bear is swimming with an average speed of 2.6 m/s, how far will it have traveled after 10.0 hours?

Solution

Step 1: List the given and the unknown values.

Given: speed, $v = 2.6 \text{ m/s}$

time, $t = 10.0 \text{ h} = 10.0 \text{ h} \times 3600 \text{ s/h} = 3.6 \times 10^4 \text{ s}$

Unknown: distance, $d = ? \text{ m}$

Step 2: Rearrange the speed equation to solve for distance.

$$\text{speed} = \frac{\text{distance}}{\text{time}} \qquad v = \frac{d}{t}$$

$$d = vt$$

Step 3: Insert the known values into the equation, and solve.

$$d = \frac{2.6 \text{ m}}{\text{s}} \times (3.6 \times 10^4 \text{ s})$$

$$d = 9.4 \times 10^4 \text{ m} = 94 \text{ km}$$

Practice

1. Suppose the polar bear were running on land instead of swimming. If the polar bear runs at a speed of about 8.3 m/s, how far will it travel in 10.0 hours?

2. Like the polar bear, the walrus is a fine swimmer, though it does not have the same endurance. For short periods of time, a walrus can swim with an average speed of 9.7 m/s. How far would a walrus swim at this speed in 3.4 minutes?

3. The maximum posted speed limit on the U.S. Interstate Highway System may be found in rural areas of several western states. This maximum speed is _____

Skills Math Skills Velocity Answers

Robert L. Mapou



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