

... simple harmonic motion and the frequency

In this example, the angular frequency is used to find the displacement per second. Since the constant  $k$  and constant  $m$  are given, the angular frequency  $\omega$  is found by using Equation 15.11.

# **DOING MULTIPLE-CONCEPT PROBLEMS**

## **Body-Mass Measurement Devices**

Many ways to take accurate body-mass measures are in use. One way is to use the magnitude of the acceleration of the mass in simple harmonic motion. The mass is attached to a spring and is set into oscillation. The period of the motion is measured electronically. The period of the motion is related to the mass of the mass by the equation  $T = 2\pi\sqrt{m/k}$ . The period of the motion is measured electronically. The period of the motion is related to the mass of the mass by the equation  $T = 2\pi\sqrt{m/k}$ .

The physics of a body-mass measurement device.



Figure 15.14 Automated body-mass measurement device. The mass of the person is measured by the period of the motion.

... the period of the motion

Table
100 kg
120 kg
140 kg

The mass  $m_{\text{osc}}$  of the oscillator is equal to the mass  $m$  of the chair.

The angular frequency  $\omega$  is related to the spring constant  $k$  by the equation  $\omega = \sqrt{k/m}$ .

$$m = \frac{k}{\omega^2}$$

Equation 15.11 at the right. The spring constant  $k$  is 100 N/m.



## **Angular Frequency and Period**

The angular frequency  $\omega$  of the oscillating mass is inversely related to its period  $T$  by

$$\omega = \frac{2\pi}{T}$$

All the variables on the right side of this equation are known, and we substitute to get Equation 15.11 as indicated in the right column.

$$\omega = \frac{2\pi}{T} \quad (15.11)$$

$$T = \frac{2\pi}{\omega} \quad (15.12)$$

**Solution:** Algebraically combining the results of the steps above, we have

$$\begin{aligned} \text{STEP 1} \quad T &= \frac{2\pi}{\omega} \\ \text{STEP 2} \quad T &= \frac{2\pi}{\sqrt{k/m}} = \frac{2\pi}{\sqrt{100 \text{ N/m} / 120 \text{ kg}}} = \frac{2\pi}{\sqrt{0.833 \text{ s}^{-2}}} = \frac{2\pi}{0.913 \text{ s}^{-1}} = 6.87 \text{ s} \end{aligned}$$

**Related Homework:** Problems 23, 27

Example 4 indicates that the mass of the vibrating object influences the frequency of simple harmonic motion. Electronic sensors are being developed that take advantage of this effect in detecting and measuring small amounts of chemicals. These sensors consist of tiny quartz crystals that vibrate when an electric current passes through them. If a crystal is coated with a substance that absorbs a particular chemical, then the mass of the crystal increases. The change in frequency is detected electronically, and the sensor is calibrated to give the mass of the absorbed chemical.

The physics of detecting and measuring small amounts of chemicals.

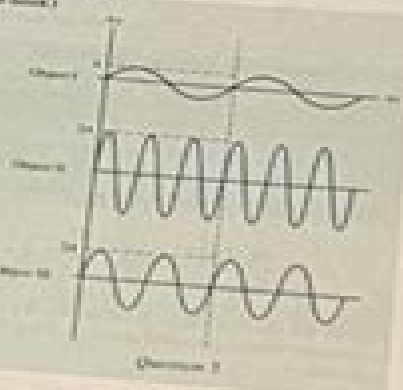
## **CHECK YOUR UNDERSTANDING**

(The answers are given at the end of the book.)

1. The diagram shows three parts of the displacement  $x$  versus time  $t$  for three objects undergoing simple harmonic motion. Which object—A, B, or C—has the greatest maximum velocity?

2. In Figure 15.12 the shadow moves in simple harmonic motion, where on the path of the shadow is the acceleration equal to zero?

3. A particle is oscillating in simple harmonic motion. The time required for the particle to travel through one complete cycle is equal to the period of the motion, no matter what the amplitude is. But how can this be, since larger amplitudes mean that the particle travels farther?



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**John Murphy**



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