

# THE MUSCULAR SYSTEM

Muscles, the specialized tissues that facilitate body movement, make up about 40% of body weight. Most body muscle is the voluntary type, called skeletal muscle because it is attached to the bony skeleton. Skeletal muscle contributes to body contours and shape, and it composes the organ system called the muscular system. These muscles allow you to grin, frown, run, swim, shake hands, swing a hammer, and to otherwise manipulate your environment. The balance of body muscle is smooth and cardiac muscles, which form the bulk of the walls of hollow organs and the heart. Smooth and cardiac muscles are involved in the transport of materials within the body.

Study activities in this chapter deal with microscopic and gross structure of muscle, identification of voluntary muscles, body movements, and important understandings of muscle physiology.

#### OVERVIEW OF MUSCLE TISSUES

Nine characteristics of muscle tissue are listed below and on page 104. Identify
the muscle tissue type described by choosing the correct response(s) from the
key choices. Enter the appropriate term(s) or letter(s) of the key choice in
the answer blank.

### Key Choices

- A. Cardiac B. Smooth
  L. Involuntary
  - \_ t. mvonanasy
  - 2. Banded appearance
    - 3. Longitudinally and circularly arranged layers

C. Skeletal

- 4. Dense connective tissue packaging
- 5. Figure-8 packaging of the cells
- 6. Coordinated activity to act as a pump

## **Muscular System Guided And Study Workbook**

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