

## Structure and Function in Living Systems

Name:

### Brainpop—Muscles

Period:

Watch the Brainpop on muscles, then answer the questions below. You can also use Chapter 15, Section 3 of your textbook if you are getting stuck.

- \_\_\_\_\_ 1. Where might you find involuntary muscle?
- in your arms
  - in your mouth
  - in your toes
  - in your stomach
- \_\_\_\_\_ 2. What is the best synonym for “voluntary”?
- necessary
  - mandatory
  - deliberate
  - painless
- \_\_\_\_\_ 3. Put the following events in the correct order:
- X. your arm moves  
Y. an impulse travels along a nerve  
Z. you decide you want to move your arm
- X, Y, Z
  - Z, Y, X
  - Z, X, Y
  - X, Z, Y
- \_\_\_\_\_ 4. Why are voluntary muscles also known as skeletal muscles?
- they are part of your skeleton
  - they give your body its form and structure
  - they make your skeleton move
- \_\_\_\_\_ 5. Where in your body can you find a joint?
- your shoulder
  - your heart
  - your brain
- \_\_\_\_\_ 6. What can you infer from the fact that your body is basically covered in voluntary muscle?
- a large network of nerves must run throughout your body
  - you are also covered in involuntary muscle
  - your muscles outweigh your bones and skin combined
  - unless you exercise every day, your muscles will stop working
- \_\_\_\_\_ 7. What would most likely happen if one of your tendons snapped in half?
- one of your bones would break
  - you wouldn't be able to move a bone
  - an involuntary muscle would stop working
  - your muscles would tighten up and not be able to relax
- \_\_\_\_\_ 8. What does glucose give your muscles?
- oxygen
  - energy
  - water
  - blood
- \_\_\_\_\_ 9. What do ligaments connect?
- bones to bones
  - bones to muscles
  - muscles to muscles
- \_\_\_\_\_ 10. What do tendons connect?
- bones to bones
  - bones to muscles
  - muscles to muscles



In the drawing to the left, you can see several different muscles in your body. Explain how you know that these muscles shown are voluntary or involuntary.

I know the muscles shown are \_\_\_\_\_, because...