

## Structure and Function in Living Systems

### Brainpop—Broken Bones

Name:

Period:

Watch the Brainpop on Broken Bones, then answer the questions below. You can also use Chapter 15, Section 2 of your textbook if you are getting stuck.

\_\_\_\_\_ 1. When a broken bone sticks out of your skin, you have...

- a. a closed fracture
- b. a compound fracture
- c. a protrusion fracture

\_\_\_\_\_ 2. What is it called when a broken bone comes through the skin?

- a. partial fracture
- b. open fracture
- c. greenstick fracture

\_\_\_\_\_ 3. What is a sign that you may have broken a bone?

- a. fever and itchiness
- b. pain and tenderness
- c. a sharp headache

\_\_\_\_\_ 4. In what type of fracture is the bone only partially broken?

- a. radial fracture
- b. open fracture
- c. greenstick fracture

\_\_\_\_\_ 5. True or false? Bones cannot heal themselves.

- a. true
- b. false
- c. It depends

\_\_\_\_\_ 6. What group is especially at risk for fractures?

- a. adults between 21 and 65 years
- b. teenagers
- c. senior citizens

\_\_\_\_\_ 7. Why do doctors use casts to repair broken bones?

- a. medicine within the cast helps the bones heal
- b. the cast immobilizes the bones so they mend properly
- c. the cast gives you a greater range of mobility

\_\_\_\_\_ 8. When might a doctor re-break a bone?

- a. when the bone hasn't healed itself properly the first time
- b. when a fracture is too deep
- c. when a bone hasn't been broken all the way through

\_\_\_\_\_ 9. Which of these help your bones stay healthy?

- a. riboflavin and vitamin B-12
- b. niacin and vitamin A
- c. calcium and vitamin D

\_\_\_\_\_ 10. When might a doctor have to amputate part of a bone?

- a. when a bone is out of alignment
- b. when it's been shattered and can't heal properly
- c. when a bone is too big



In the cartoon to the left, you can see a doctor talking to Tim. What kind of advice might he give Tim about reducing his chances of getting another broken bone?