

Structure and Function in Living Systems

Name: _____

Bones

Period: _____

Use Chapter 15, Section 2 of your textbook to answer the questions below. The word banks can be used to fill out the sentences below them.

blood brittle cartilage dry fat homeostasis marrow minerals
organ osteoblasts pull ribs spongy tissues

Section 1: The Skeletal System (p.472)

1. Your bones are not _____ or _____.
2. _____ makes up the skeletal system, along with bones and connective tissue.

Bones

3. You have _____ bones in your body.
4. Bones help your body maintain _____.
5. Bones called _____ protect your heart and lungs.
6. _____ are stored in bones to help your nerves and muscles.
7. You can move because skeletal muscles _____ on bones.
8. In bones, _____ makes blood cells.



Bone Structure (p.473)

9. A bone is made of several different _____, which means that your bone is an _____.
10. The minerals in bones are made by cells called _____.
11. What words describe compact bone?
a. soft and moist b. hard and dense c. dry and brittle d. round and hollow
12. What can you find inside compact bone?
a. small blood vessels b. open spaces c. marrow d. soft tissue
13. What does spongy bone have a lot of?
a. blood vessels b. dead cells c. water d. open spaces
14. What kind of bone tissue gives bones most of their strength and support? _____
15. Red marrow makes both kinds of _____ cells.
16. _____ is stored in yellow marrow.

turn over for more questions

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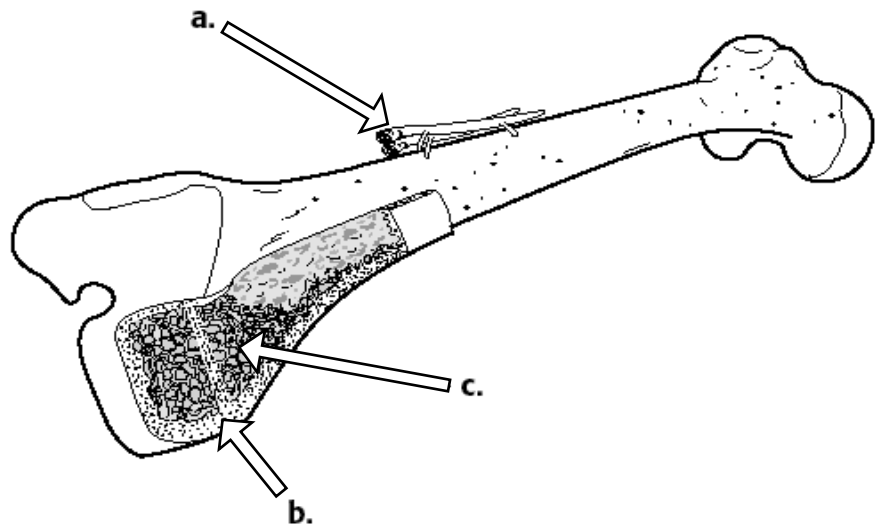
bone cartilage ear growth plates nose

Use the figure below for questions 17 through 19. Match the term with the letter on the diagram.

____ 17. spongy bone

____ 18. compact bone

____ 19. blood vessels



Bone Growth (p.473)

20. When you are born, your skeleton is made mostly of _____.

21. As you get older, _____ replaces most of your cartilage.

22. Bones continue to grow from locations called _____.

23. You can feel cartilage on the top of your _____ and at the end of your _____.