

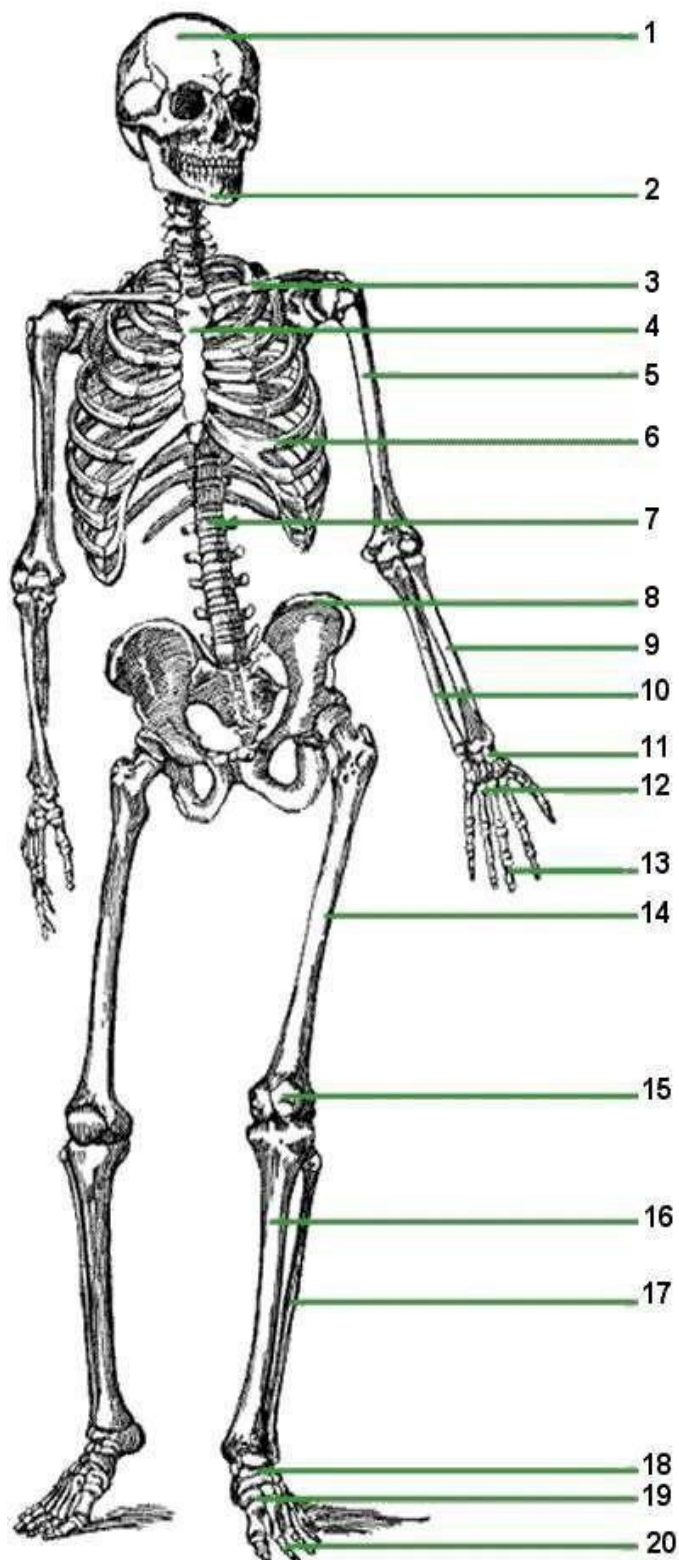
Name _____ Date _____ Section _____

SKELETAL SYSTEM WORKSHEET

Part I

HUMAN SKELETAL SYSTEM Color the diagram below using the table as a key.

Number	Color	Name of Bone
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		
17.		
18.		
19.		
20.		



CLASSIFICATION OF BONES

There are 206 named bones of the human body that are classified into axial and appendicular skeletons

THE AXIAL SKELETON

80 bones segregated into three major regions (the skull, vertebral column, and rib cage). These are the bones that are most involved in **protecting, supporting,** and carrying other body parts.

The Skull: Sometimes also referred to as the **cranium**, but actually the cranium is the portion of the skull that protects the brain. The skull includes 8 cranial bones and 14 facial bones.

Mandible – the lower jaw, largest and strongest facial bone

The Vertebral Column: consists of 26 irregular bones and extends from the skull to the pelvis where it transmits the weight of the body to the lower limbs. The bones of the vertebral column include 24 vertebrae, the sacrum, and the coccyx.

The Bony Thorax: composed of the 12 pairs of **Ribs** and the **Sternum**

The Appendicular Skeleton

126 bones of the upper and lower limbs and the shoulder and pelvic girdles. These bones assist in locomotion and help us manipulate the environment.

Bones of the appendicular skeleton include:

- | | |
|--|---|
| 1. Clavicle (collar bone: 2) | 9. Pelvic Bones (hip bones: 2) |
| 2. Scapula (shoulder blade: 2) | 10. Femur (upper leg bone: 2) |
| 3. Humerus (upper arm bone: 2) | 11. Patella (knee cap: 2) |
| 4. Radius (forearm, thumb side: 2) | 12. Fibula (lower leg bone: 2) |
| 5. Ulna (forearm, pinky side: 2) | 13. Tibia (shin bone: 2) |
| 6. Carpals (wrist bones: 16) | 14. Tarsals (ankle bones: 14) |
| 7. Metacarpals (hand bones: 10) | 15. Metatarsals (foot bones: 10) |
| 8. Phalanges of hands (fingers: 28) | 16. Phalanges of feet (toes: 28) |

Part II.

Use the “**Skeletal System Reading**” to complete the following questions.

List 5 functions of bones within the skeletal system!

1. _____
2. _____
3. _____
4. _____
5. _____

Describe compact bone!

1. _____

Describe spongy bone!

2. _____

Draw a diagram illustrating where yellow and red bone marrow are found within a long bone!



Part III

Directions: Answer the following questions about joints. You may refer to your previous reading in this section.

1. What is a joint? _____
2. Name three types of joints according to their degree and range of motion.
 - a. _____
 - b. _____
 - c. _____
3. Describe the action of a ball and socket joint. _____

4. Give an example of a ball and socket joint in humans. _____
5. Provide a non-human example of a ball and socket joint. _____
6. Describe the action of a hinge joint. _____

7. Provide an example of a hinge joint found on the human body.

8. Think of a non-human hinge joint and write it below.

9. What structure encompasses (encloses) a joint? _____
10. What connects the bones across a joint? _____
11. What structure powers bones and joints to move? _____
12. Name two structures that allow smooth movement of a joint and protect it from wearing out:
 - a. _____
 - b. _____

