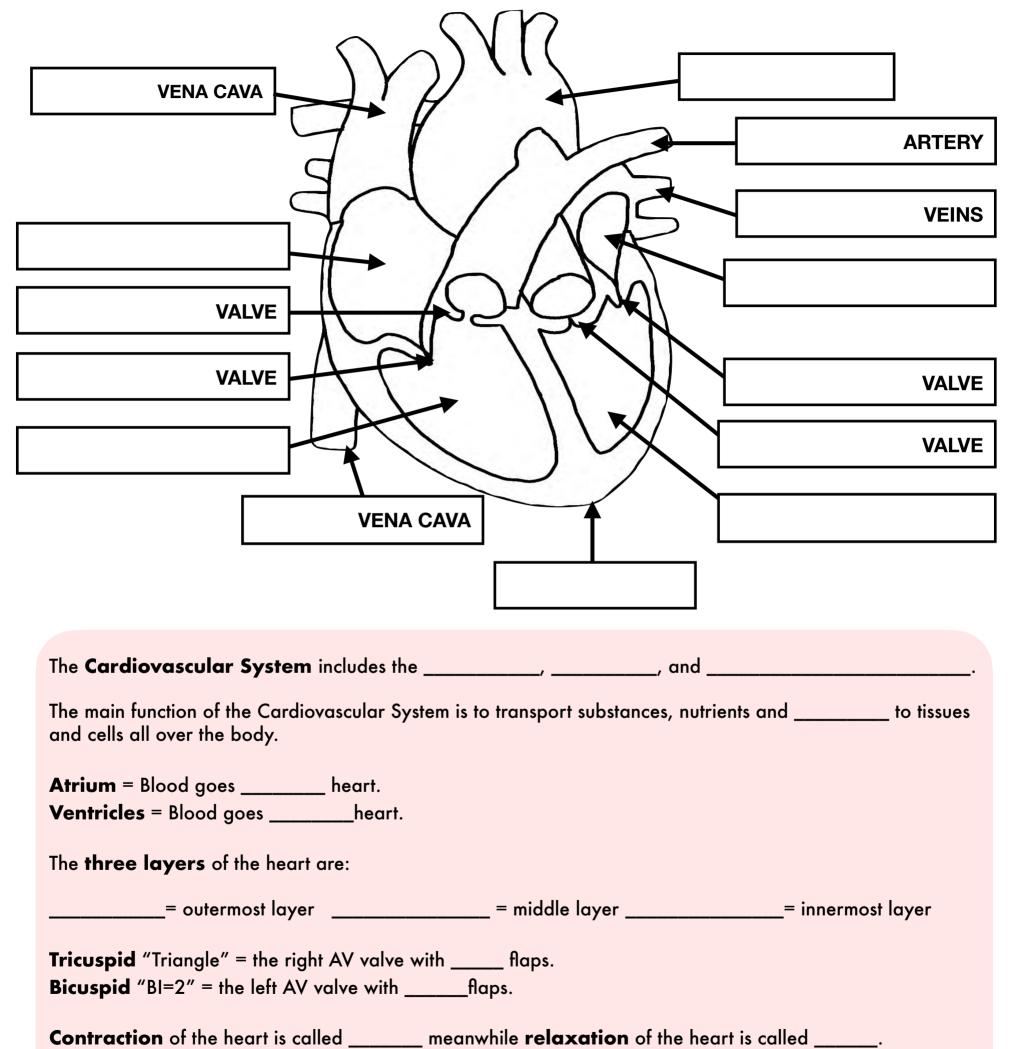
CARDIOVASCULAR SYSTEM

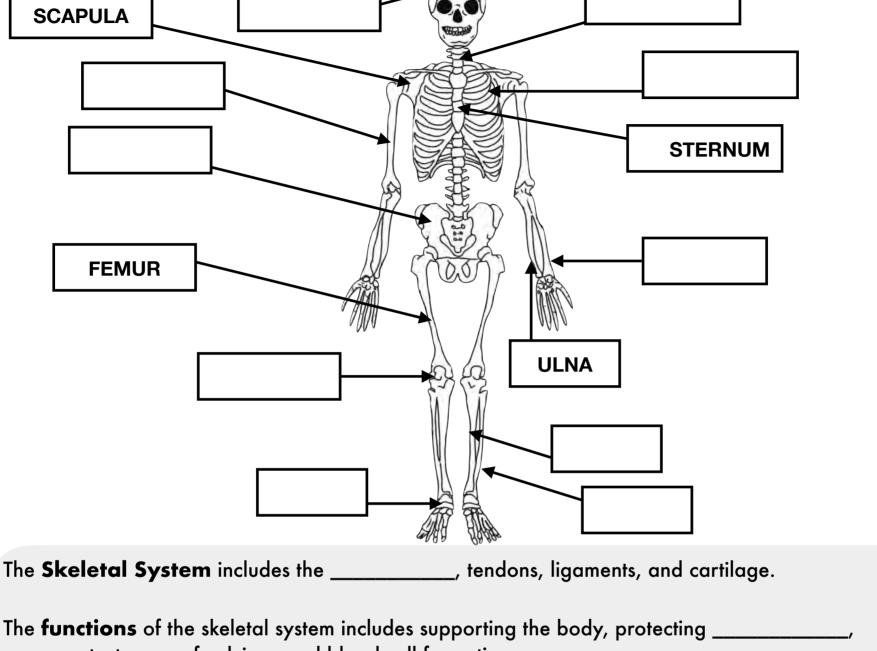


Normal Pulse: 60-100, **Normal BP:** 120/80

The first heart sound "LUB" in the cardiac cycle is caused by a closing of the _____ valves. The second

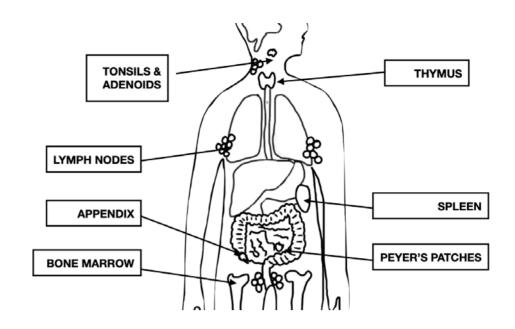
heart sound "DUB" is due to closing of the _____ valves.

SKELETAL SYSTEM



The Skeletal System includes the, tendons, ligaments, and cartilage.
The functions of the skeletal system includes supporting the body, protecting, movement, storage of calcium, and blood cell formation.
The Skeletal System is divided into the Axial & Appendicular skeleton. The Axial Skeleton include the longitudinal axis of the body bones (ribs, sternum, skull, vertebral column), while the Appendicula Skeleton include the (arm, legs, hips).
The two types of bone tissue are: compact andbone.
Bones can be classified into four shapes : long, short, flat, and irregular: humerus of arm: sternum: vertebra: carpal of wrist
Mature bone cells are called
The types of Bone Marrow are:produces red blood cells, andis made up of adipose tissue.

while B cells from Red Bone Marrow provide antibodies to prevent future attacks. The largest organ of the body that provides external protection is the SKIN. Other mechanisms of external defense are mucous membranes, skin secretions, and cilia in the nasal cavity. Internal defenses system include PHAGOCYTES that eat bacteria, the inflammatory response (heat, redness, swelling, PAIN), and antimicrobial proteins. A virus,



bacteria, fungi, pollen, toxin is a type of **ANTIGEN**, and an **ANTIBODY** is used to bind to an antigen to reduce or stop its progression.

MUSCULAR SYSTEM

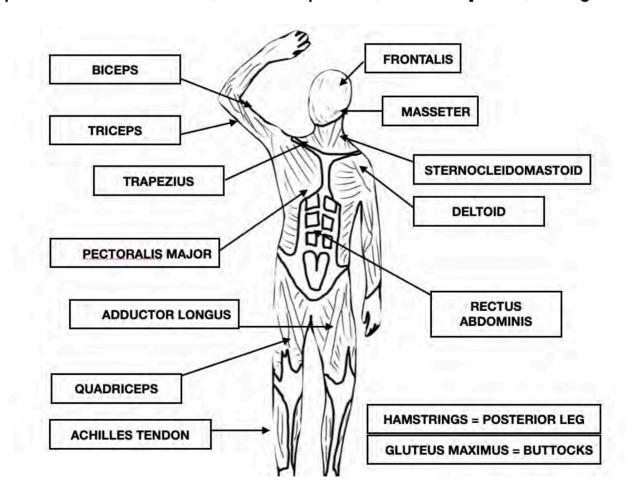
The **Muscular System** is made up of skeletal, cardiac, and smooth muscle. The functions of the muscular system are to produce **MOVEMENT**, maintain posture, stabilize **joints**, and generate

HEAT. The outer layer of muscle is called the

epimysium, middle layer is the perimysium, and the inner layer is called the endomysium.

Flexion: a movement that decreases the angle of a joint. "Coming Together"

Extension: a movement that increases the angle of a joint. "Distancing Apart"



Abduction: moving a limb away from the middle of the body.

Adduction: moving a limb towards the middle of the body.

Rotation: movement of a bone around a longitudinal axis.

Eversion: moving the foot laterally **Inversion**: moving the foot inward (invert)

Supination: palms facing up (anterior) Pronation: palms facing down (posterior)