1. Overview of the Cardiovascular System
2. Major function: transportation
3. O2, nutrients, wastes, hormones, etc.
4. Uses blood to carry things
5. Three major components: heart, vessels, blood
6. Heart
7. One-pound, fist-sized muscular pump with

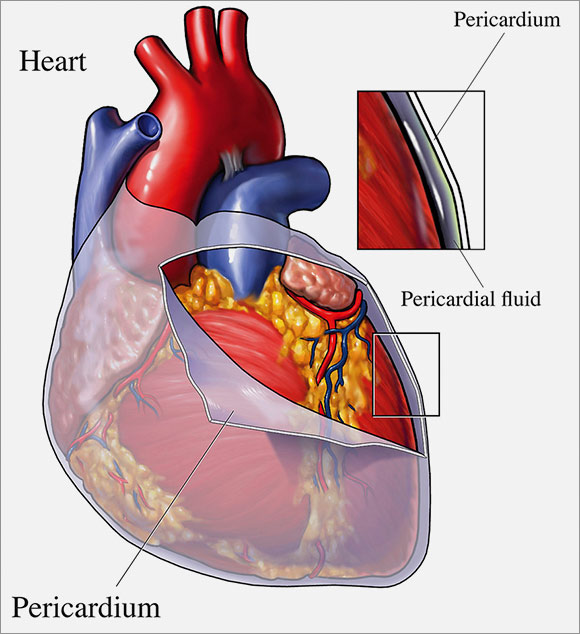
one-way valves.

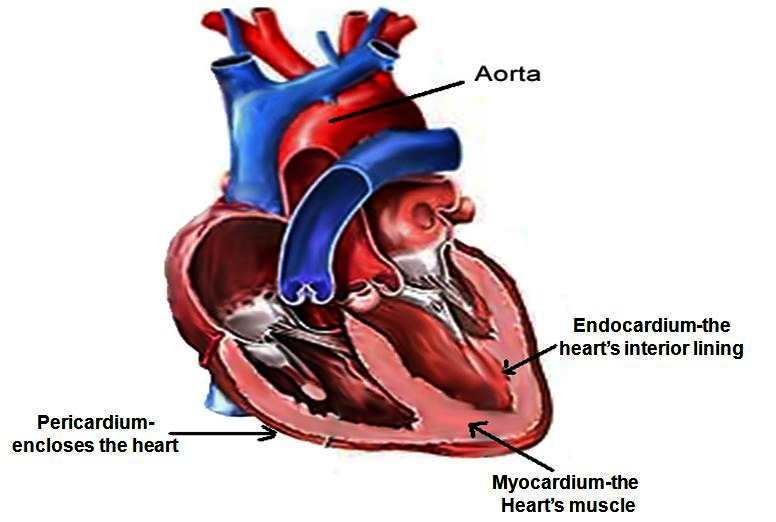
1. Pumps about 4,000 gallons of blood daily.
2. Inferior (pointy) end called the “apex”;

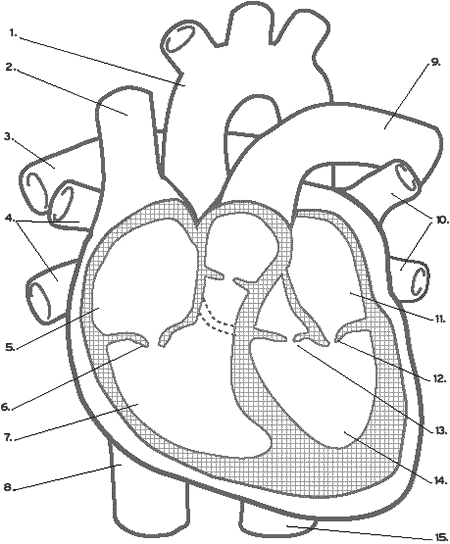
superior (blunt) end called the “base”.

1. Covered with two layers of pericardium with

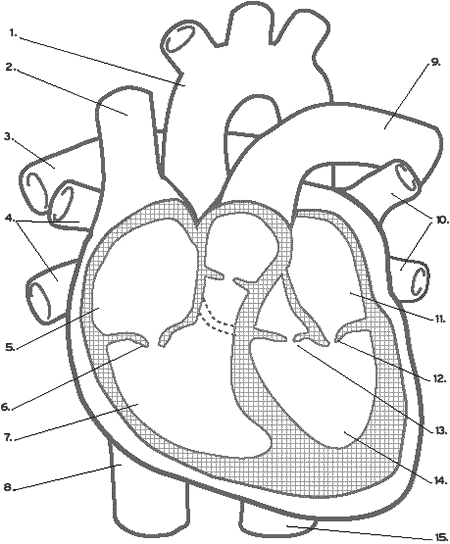
fluid in between (lubrication).



1. Heart walls made of three layers:
2. Epicardium – outside layer
3. Myocardium – middle layer (cardiac muscle)
4.  Endocardium – inside lining
5. Four hollow chambers (2 atria & 2 ventricles)
6. Atria – receiving chambers (not muscular)
7. Ventricles – sending chambers (muscular)
8. Right A&V – pulmonary circulation
9. Receive O2-poor blood from body.
10. Sends O2-poor blood to lungs to get O2.
11. Left A&V – systemic circulation
12. Receive O2-rich blood from lungs.
13. Sends O2-rich blood to body.
14. Blood Flow through the Heart
15. Pulmonary Circulation (RA 🡪 RV 🡪 PA 🡪 lungs 🡪 PV)



1. Systemic Circulation (LA 🡪 LV 🡪 aorta 🡪 body 🡪 VC)



Assn: p.348-349 Multiple Choice #1,7

Short Answer Essay #1,3,4,5,7

Cardiovascular System Packet #1,2,3,6