

The Cardiovascular System: Cardiac Cycle

1. Valves open in response to _____ on their two sides.
2. List the chambers/vessels that the four valves connect:

Chamber		Chamber/Vessel
	Pulmonary Semilunar	
	Aortic Semilunar	
	Mitral	
	Tricuspid	

3. a. Ventricular filling occurs during _____ ventricular _____.
b. Blood flows through the _____ or _____ valves into the ventricles.
4. During Ventricular Systole, what closes the AV valves?
5. During Ventricular Systole, what opens the semilunar valves?
6. During Isovolumetric Relaxation, what closes the semilunar valves?
7. During Isovolumetric Relaxation, what opens the AV valves?
8. Why is hypertension hard on the heart?

9. Looking at the ventricular volume graph, the stroke volume is approximately how many ml? _____

10. During the four phases listed below, state whether the AV and semilunar valves are opened or closed:

	AV valves	Semilunar valves
Ventricular Filling		
Isovolumetric Contraction		
Ventricular Ejection		
Isovolumetric Relaxation		