

Name _____

Your partner _____

An Examination of the Heart

I. General Info:

The an adult heart weighs about _____, and is as big as your _____

It is enclosed by a double membrane sac called _____

Fluid produced by the membrane (give function) _____

*** Locate and identify the structures of the sheep heart. Use a probe to help trace the path of blood.**

II. Anatomy of the Heart Walls: 3 layers

a) Epicardium = _____

b) Myocardium = _____

c) Endocardium = _____

III. Chambers of the Heart: 4 chambers

Atria = _____

Atria (give location) _____

- Right and Left atria _____ then blood flows to the lower chambers; the right and left ventricles.

Ventricle = _____

Ventricles (give location) _____

- Ventricles discharge _____ into the _____ *trunk* and the _____ (a major artery).

IV. Valves of the Heart: 4 valves

Two Atrioventricular valves (give location of both) _____

- Tricuspid valve is between: _____

- Bicuspid valve is between: _____

Two Semilunar Valves:

-Pulmonary semilunar valve (give location) _____

-Aortic semilunar valve (give location) _____

V. Circulation of the Heart: (2 circuits)

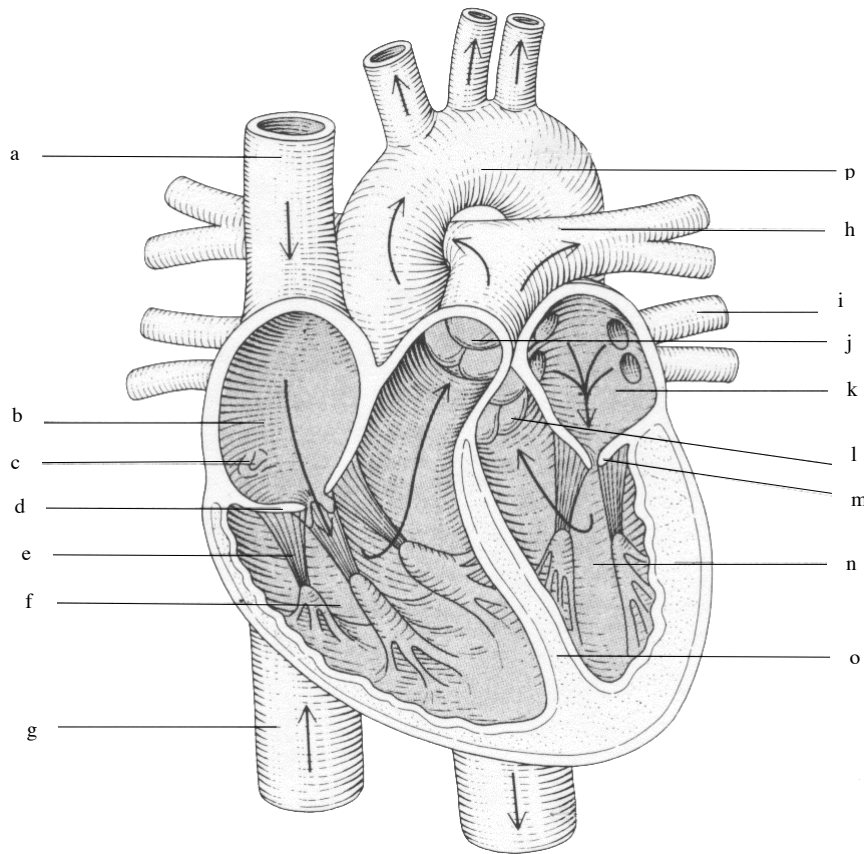
Pulmonary Circulation:(defined) _____

Oxygen-poor blood from the veins of the body enter the _____ atrium via the *superior* and *inferior* _____. The blood then passes through the _____ valve and into the *right ventricle*. During ventricular contraction, the blood is forced onto the _____ *trunk* to the right and left _____ *arteries* to the _____.

Systemic Circulation:(defined) _____

Oxygen-rich blood from the lungs is carried to the _____ atrium from the _____ *veins*. The left atrium contracts and forces _____ through the _____ valve into the _____ ventricle. Once the left ventricle _____ blood is ejected through the _____ valve into the aorta, and then onto the systemic arteries, capillaries, and _____ of body tissues. The systemic blood drops off O₂ to body cells and picks up CO₂ by systemic veins. This deoxygenated blood is brought back to the right atrium via the _____ and _____.

VI. The Heart and Associated Blood Vessels: Label the parts of the mammalian heart in the figure below.



Anteriofrontal view