

# What Is the Anatomy of the Heart?

## Worksheet

The heart has four chambers - the right atrium, right ventricle, left atrium, and left ventricle - separated by valves that keep blood flowing in one direction as it moves between the body, lungs, and back.

## Questions

1. Which chamber pumps oxygenated blood to the entire body?
  - A) Right atrium
  - B) Right ventricle
  - C) Left atrium
  - D) Left ventricle
2. Where does blood go immediately after leaving the right ventricle?
  - A) Aorta
  - B) Pulmonary artery
  - C) Left atrium
  - D) Vena cava
3. What is the function of the heart valves?
  - A) Pump blood
  - B) Prevent backflow of blood
  - C) Produce electrical signals
  - D) Store oxygen
4. Which vessel carries oxygenated blood from the lungs to the heart?
  - A) Pulmonary artery
  - B) Vena cava
  - C) Pulmonary vein
  - D) Coronary artery
5. An adult heart beats about 72 times per minute at rest. How many times does it beat in one day?
6. Deoxygenated blood enters the heart through the right atrium. Trace its path until it becomes oxygenated and leaves the heart again.
7. The mitral (bicuspid) valve sits between the left atrium and left ventricle. What happens if it fails to close properly (mitral regurgitation)?
8. Define: How many chambers does the heart have?
9. Define: Which side of the heart pumps blood to the lungs?
10. Define: Which side of the heart pumps blood to the body?

## Answer Key

1. D) Left ventricle - The left ventricle has the thickest walls and pumps blood through the aorta to the body.
2. B) Pulmonary artery - The right ventricle pumps blood to the lungs via the pulmonary artery.
3. B) Prevent backflow of blood - Valves open and close to ensure one-way blood flow.
4. C) Pulmonary vein - The pulmonary veins carry oxygenated blood from the lungs to the left atrium.
5.  $72 \text{ beats/min} \times 60 \text{ min/hr} \times 24 \text{ hr/day} = 72 \times 1,440 = 103,680 \text{ beats per day}$
6. Right atrium right ventricle pulmonary artery lungs (gas exchange) pulmonary veins left atrium left ventricle aorta
7. Blood leaks backward into the left atrium during ventricular contraction This reduces the efficiency of blood being pumped to the body
8. Four - right atrium, right ventricle, left atrium, left ventricle.
9. The right side (right ventricle, via the pulmonary artery).
10. The left side (left ventricle, via the aorta).

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