

Human Heart Quiz

Ten questions on the whole series. Answer them all, then turn the page round to check.

1 Which chamber pumps oxygen-poor blood to the lungs?

- A

Right atrium
- B

Right ventricle
- C

Left atrium
- D

Left ventricle

2 Which valve lies between the left atrium and the left ventricle?

- A

Tricuspid valve
- B

Pulmonary valve
- C

Mitral valve
- D

Aortic valve

3 Which blood vessels bring oxygen-rich blood from the lungs into the heart?

- A

Vena cava
- B

Aorta
- C

Pulmonary artery
- D

Pulmonary veins

4 Roughly how many times does a heart beat in one day?

- A

About 1,000
- B

About 10,000
- C

About 100,000
- D

About 1,000,000

5 Which structure starts each heartbeat?

- A

The AV node
- B

The SA node
- C

The septum
- D

The brain

6 Why does the left ventricle have a thicker wall than the right?

- A

It pumps more blood per beat
- B

It pushes blood all round the body
- C

It receives blood from the body
- D

It contains the pacemaker

7 Which blood vessels have walls only one cell thick?

- A

Arteries
- B

Veins
- C

Capillaries
- D

The aorta

8 Who published proof that blood circulates round the body, in 1628?

- A

Galen
- B

Ibn al-Nafis
- C

William Harvey
- D

Christiaan Barnard

9 What does 'double circulation' mean? Name both loops.

10 Diagrams show oxygen-poor blood in blue. What colour is it really, and why is it drawn blue?

- ANSWERS
1. B: Right ventricle

2. C: Mitral (bicuspid) valve

3. D: Pulmonary veins

4. C: About 100,000 (70 × 60 × 24 ≈ 100,800)

5. B: The SA node, the heart's natural pacemaker

6. B: It must push blood all round the body (both ventricles pump the same amount)

7. C: Capillaries

8. C: William Harvey

9. Blood passes through the heart twice per circuit: the pulmonary loop (heart-lungs) and the systemic loop (heart-body)

10. Dark red: all blood is red. Blue is only a convention to tell oxygen-poor from oxygen-rich blood
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