

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 ($70 \times 60 \times 24 = 100,800$)
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). Dark red as blood is red. Blue is only a convention to tell oxygen-poor from oxygen-rich blood.
10. Dark red as blood is red. Blue is only a convention to tell oxygen-poor from oxygen-rich blood.

SERIES COMPLETE

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