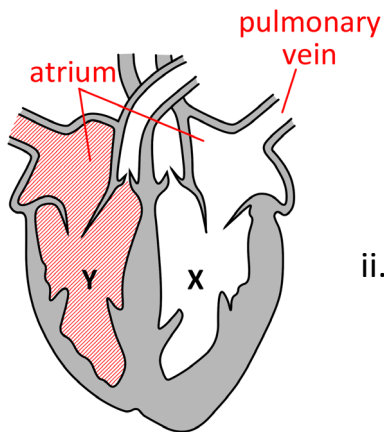


Name:

Class:



The figure below shows a diagram of a section through the heart.



i. On the figure

- 1) Label **an** atrium.
- 2) Label the pulmonary vein.
- 3) Shade in the **chambers** that contain deoxygenated blood.

ii. Explain why the wall around chamber X needs to be thicker than that around chamber Y.

Any **two** of the following:

- (chamber) X pumps blood further (than Y)
- (X) has more muscle (in wall)
- To contract with/generate greater pressure

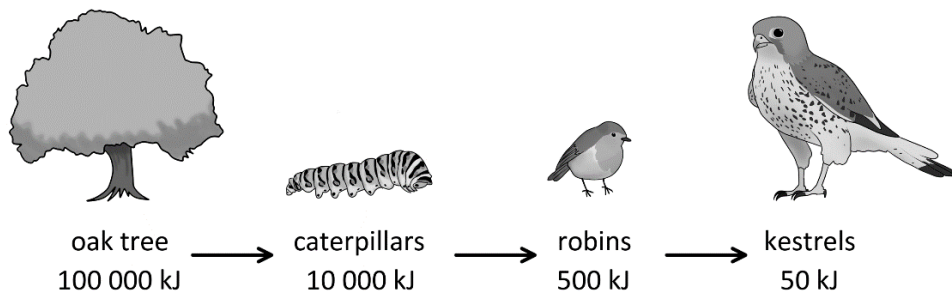
Note: Only **one** Atrium labelled is correct.

iii. Name the blood vessel that delivers blood to the muscles of the heart.

Coronary artery

iv. Which chamber of the heart has the most muscular wall? **The left ventricle.**

The figure below shows a food chain. The numbers written below each organism show the relative amount of energy at each trophic level in the food chain.



i. State what the arrows in the figure above represent.

The flow or movement of energy between organisms in a food chain.

ii. Suggest why the arrows are different sizes.

This shows that different amounts of energy is transferred at each level. It also shows that energy is lost at each level.

iii. State the amount of energy that passes from the producers to the primary consumers.

10 000 kJ

iv. Name two carnivores shown in the figure above.

Robins and Kestrels