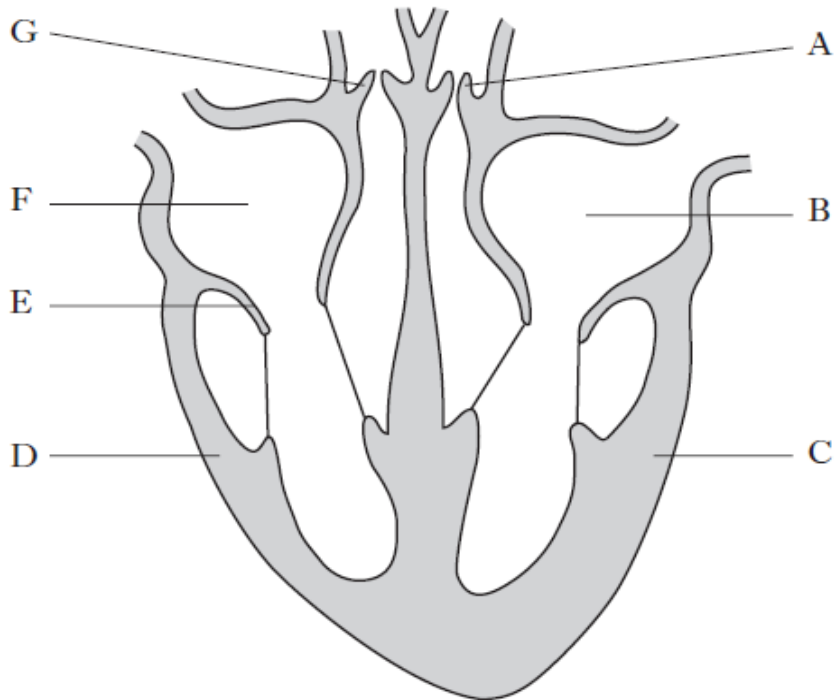


Key Area 2.6

Homework 1

1. The following diagram shows the structure of the heart.



- (a) From the diagram select the letters which match the statements below.

- (i) Produces maximum pressure to push blood round the body.

Letter _____

KU1

- (ii) Prevents backflow of blood into the right ventricle.

Letter _____

KU1

- (iii) Receives oxygenated blood from the lungs.

Letter _____

KU1

- (b) Name the blood vessel which supplies blood to the heart muscle.

KU1

2. (a) The heart is formed from four chambers. The upper chambers are the left atrium and the right atrium. The wall of the right atrium has an average thickness of 2 mm. The left atrium wall is on average 3 mm thick. The lower chamber on the left side, the left ventricle, has walls on average 18 mm thick, compared to 4.5 mm in the right ventricle.

(i) Use this information to copy and complete the following table.

PS2

<i>Heart chamber</i>	<i>Average wall thickness (mm)</i>
	18

(ii)

Express the ratio of the average wall thickness of the right ventricle to that of the left ventricle as a simple, whole number ratio.
Space for calculation

_____ : _____
right ventricle : left ventricle

PS1

- (b) Decide if each of the following statements about blood vessels is True or False, and tick (✓) the appropriate box.
If the statement is False, write the correct word in the Correction box to replace the word(s) underlined in the statement.

<i>Statement</i>	<i>True</i>	<i>False</i>	<i>Correction</i>
<u>Capillaries</u> contain valves.			
<u>Veins</u> allow gas exchange.			
Blood leaves the heart in <u>arteries</u> .			

KU3