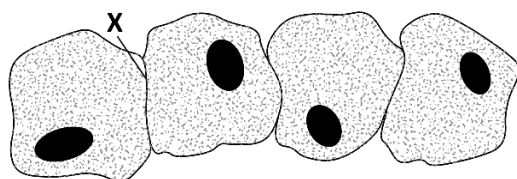


Name:

Class:



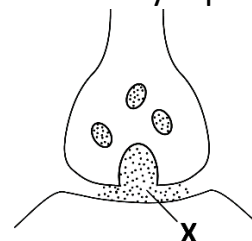
The diagram shows some animal cells, as seen under the microscope.



What will be present at X?

- A one cell membrane
- B one cell wall
- C two cell membranes**
- D two cell walls

The diagram shows a synapse.

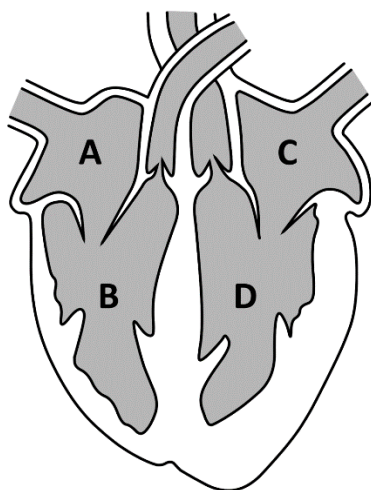


What do the dots at X represent?

- A neurotransmitter molecules**
- B receptor molecules
- C synapse
- D vesicles

The figure below shows a section through the human heart.

Chamber A collects deoxygenated blood from the body.



i. Identify the blood chambers A, B, C and D

A = **right atrium**

B = **right ventricle**

C = **left atrium**

D = **left ventricle**

ii. State which organ the blood goes to after it leaves chamber B.

The lungs

iii. Name the valve found between chambers C and D.

The bicuspid valve.

iv. What is the function of valves?

To prevent the back flow of blood.

What is the balanced symbol equation for photosynthesis?



Name **one** of the scientists who determined the structure of DNA.

James Watson or Francis Crick

A gene can be heterozygous. What does heterozygous mean?

A gene that has one dominant and one recessive allele.

Do not accept an answer that states the alleles are different without explanation.