

Name:

Class:



Describe how to test a sample of food for the presence of protein.

Test: Add a few drops of biuret solution to the sample.

Positive result: A lilac or purple colour indicates that protein is present.

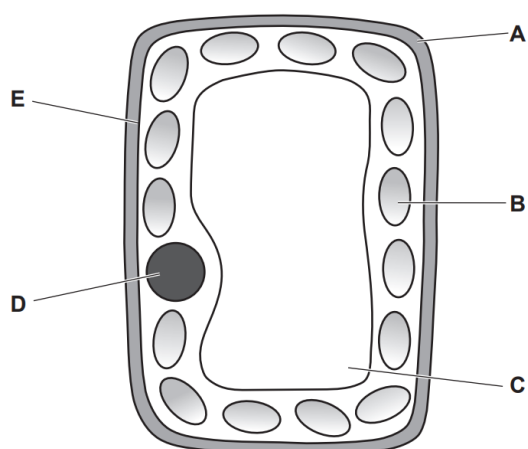
What is a gene?

A short section of DNA that codes for the production of a particular protein.

What is a gamete?

A sex cell.

The figure below shows a palisade cell of a plant leaf. Identify the structures labelled A, B, C, D and E.



A = cell wall.

B = chloroplast.

C = vacuole.

D = nucleus.

E = cell membrane.

What is the function of ribosomes?

They are the site of protein synthesis.

What is a heterozygous gene?

A gene that has one dominant allele and one recessive allele.

Give **two** similarities between a prokaryotic cell and a eukaryotic cell.

Any **two** of the following:

- Both have cytoplasm.
- Both have a cell membrane.
- Both have ribosomes.
- Both have DNA.

A potato core had a mass of 15 g before being placed into a dilute solution. After three hours the core was removed and dabbed dry. Its new mass was 21.5 g. Calculate the percentage change in mass.

$$\text{Percentage change in mass} = \frac{21.5 - 15}{15} \times 100$$

Percentage change = **43.3 %**