

Name:

Class:



The nucleus in each cell in the stem of a plant contains 32 chromosomes.

How many chromosomes are there in the nuclei of its pollen grains?

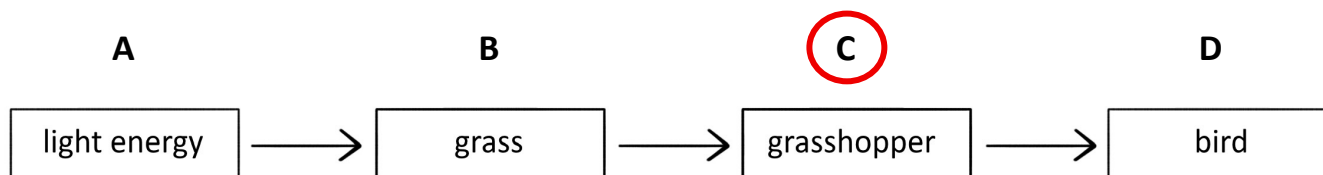
B is the only correct answer.

What is meant by an antagonistic pair of muscles?

A pair of muscles that work in opposing ways.

When one contracts the other relaxes.

The diagram shows a simple food chain. Which is the primary (first) consumer?



Describe a test to show that a sample of food contains fat.

Test: add a few drops of ethanol and shake.

Positive result: a white emulsion shows that fat is present.

Accept correct Sudan (III) test.

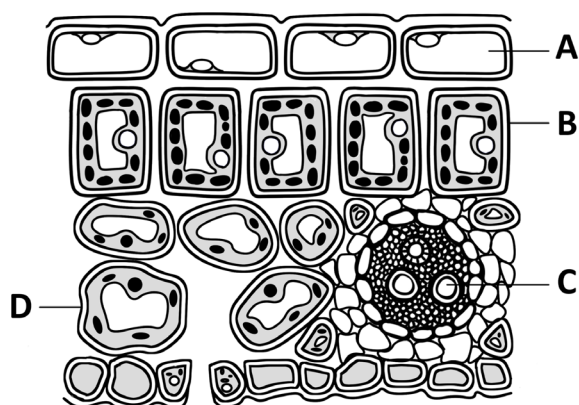
Describe a test to show that a sample of food contains glucose.

Test: add Benedict's solution to the sample and heat.

Positive result: a colour change indicates that glucose is present. Accept brick red.

The diagram below shows a cross-section through a leaf.

Label the following structures.



A = **Upper epidermis.**

B = **Palisade mesophyll/ palisade cell.**

C = **Vascular tissue/ vein.**

D = **Spongy mesophyll.**

State the function of a ligament.

Joins bone to bone.

What is the function of a mitochondrion?

Site of aerobic respiration.

State the function of the cell membrane.

It is a partially permeable membrane that controls what enters and leaves the cell.