

1 The diagrams show a plant at the start of an experiment, and the same plant two weeks later.

start of the experiment

after two weeks



Which characteristics of living organisms are demonstrated by this experiment?

- A excretion and growth
- B excretion and reproduction
- C growth and sensitivity
- D sensitivity and reproduction

2 What can be used to classify organisms?

- A the number of bases in DNA
- B the number of different types of bases in DNA
- C the sequence of bases in DNA
- D the sequence of bases in one protein

1 The photographs show two different rats.

Rattus norvegicus

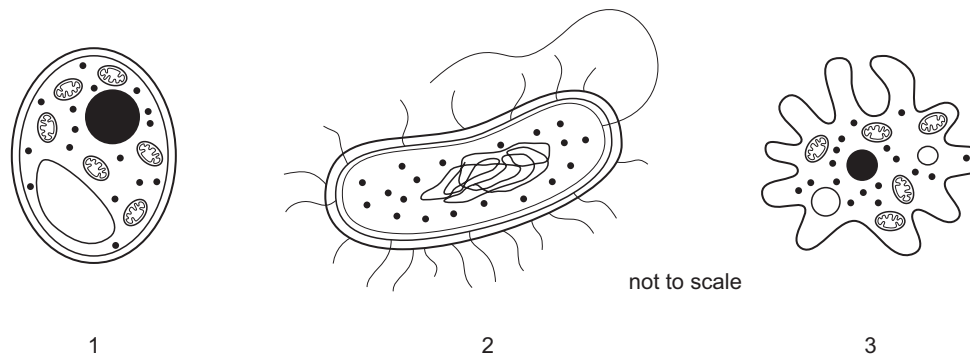
Rattus rattus



Which statement about the rats is correct?

- A The rats belong to the same genus.
- B The rats belong to the same species.
- C The rats can breed together to produce fertile offspring.
- D The rats do **not** share any of the same features.

2 The diagrams show cells of organisms from three different kingdoms.



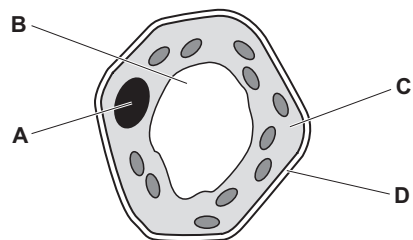
Which row shows the kingdoms for the organism cells labelled 1, 2 and 3?

	cell 1	cell 2	cell 3
A	fungus	protocist	prokaryote
B	fungus	prokaryote	protocist
C	prokaryote	fungus	protocist
D	prokaryote	protocist	fungus

3 The diagram shows a plant cell.

A biologist wants to find out the number of chromosomes it contains.

Which labelled part should be examined more closely?



1 What is a characteristic of all living organisms?

- A breathing
- B photosynthesis
- C reproduction
- D transpiration

2 What are the two parts of the scientific name of an organism?

- A genus followed by kingdom
- B genus followed by species
- C kingdom followed by genus
- D kingdom followed by species

1 Which characteristic of living things requires carbon dioxide to diffuse into a leaf?

- A excretion
- B movement
- C nutrition
- D respiration

2 Which set of features is characteristic only of birds?

- A hair and wings
- B hard-shelled eggs and feathers
- C scales and soft-shelled eggs
- D wings and soft-shelled eggs

1 The photograph shows an animal called a margay.



Four processes that occur in the margay are listed.

- excretion
- growth
- digestion
- respiration

How many of the processes that occur in the margay are characteristics of all living organisms?

- A 1
- B 2
- C 3
- D 4