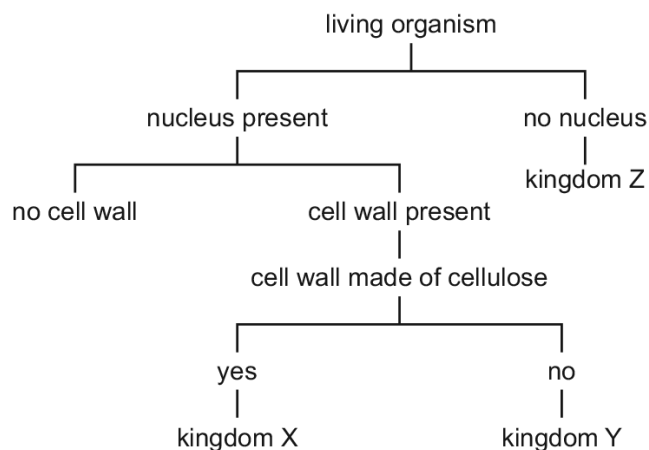


1.3 Features of organisms

01. 0610_m22_qp_22 Q: 2

The key shows some features of living organisms that can be used to place them into one of three different kingdoms.



Which row correctly identifies these three kingdoms?

	X	Y	Z
A	fungi	plant	prokaryote
B	fungi	plant	protocist
C	plant	fungi	prokaryote
D	plant	fungi	protocist

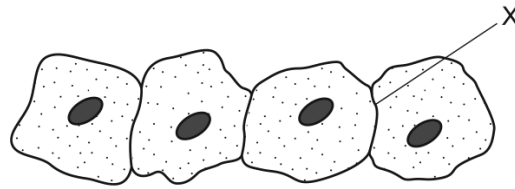
02. 0610_m21_qp_22 Q: 3

What is the correct order of arthropod groups, from those with the **most** legs to those with the fewest legs?

- A** arachnids → crustaceans → insects → myriapods
- B** arachnids → insects → myriapods → crustaceans
- C** myriapods → crustaceans → arachnids → insects
- D** myriapods → insects → arachnids → crustaceans

03. 0610_m21_qp_22 Q: 4

The diagram shows four animal cells, as seen under a light microscope.



What will be present at X?

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

04. 0610_s21_qp_21 Q: 2

The table shows a section of DNA taken from four different organisms.

organism	base sequence									
W	C	A	C	A	A	T	C	G	A	A
X	G	T	C	A	A	T	G	G	T	G
Y	C	T	C	A	A	T	C	G	T	A
Z	C	T	C	A	T	T	C	G	T	A

Which two organisms are the most distantly related to each other?

- A** W and X
- B** W and Z
- C** X and Y
- D** X and Z

05. 0610_s21_qp_21 Q: 3

Scientists discover a new species of animal.

It has a segmented body with two pairs of legs on each segment.

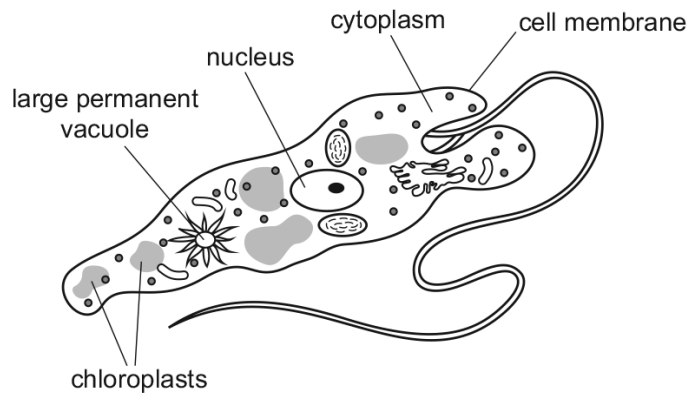
To which group of animals does this new species belong?

- A** arachnids
- B** crustaceans
- C** insects
- D** myriapods

1.3. FEATURES OF ORGANISMS

06. 0610_s21_qp_21 Q: 4

The diagram shows a single-celled organism called *Euglena*.



Which labelled structures would also be found in an animal cell?

- A cell membrane, chloroplast, nucleus
 - B chloroplast, cytoplasm, nucleus
 - C cell membrane, cytoplasm, nucleus
 - D cell membrane, cytoplasm, large permanent vacuole
-

07. 0610_s21_qp_22 Q: 3

Scientists discover a new species of animal.

It has a segmented body with two pairs of legs on each segment.

To which group of animals does this new species belong?

- A arachnids
 - B crustaceans
 - C insects
 - D myriapods
-

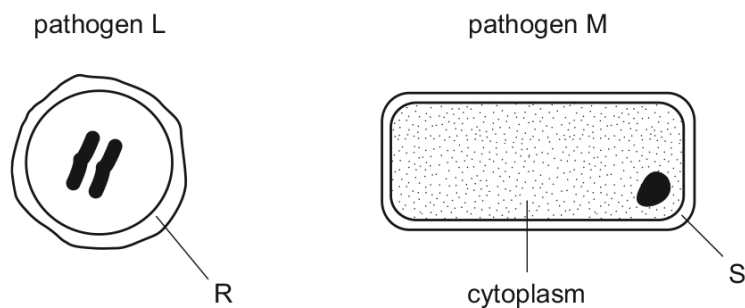
08. 0610_m20_qp_22 Q: 3

What is a characteristic of both insects and arachnids?

- A eight legs
 - B exoskeleton
 - C three pairs of legs
 - D wings
-

09. 0610_p20_qp_20 Q: 2

The diagram shows two pathogens, not drawn to the same scale.



What identifies pathogens L and M and structures R and S?

	L	M	R	S
A	prokaryote	virus	cell wall	protein coat
B	prokaryote	virus	protein coat	cell wall
C	virus	prokaryote	cell wall	protein coat
D	virus	prokaryote	protein coat	cell wall

10. 0610_w20_qp_21 Q: 2

What are features of the leaves of a plant that is a dicotyledon?

	broad leaves	parallel veins
A	✓	✓
B	✓	✗
C	✗	✓
D	✗	✗

key
✓ = yes
✗ = no

11. 0610_w20_qp_22 Q: 2

What are features of the leaves of a plant that is a dicotyledon?

	broad leaves	parallel veins
A	✓	✓
B	✓	✗
C	✗	✓
D	✗	✗

key
✓ = yes
✗ = no

1.3. FEATURES OF ORGANISMS

12. 0610_w19_qp_21 Q: 3

The table shows the number of animals collected in a sample from a woodland and the groups to which they belong.

animal group	number in sample
arachnids	10
crustaceans	8
insects	80
myriapods	7

How many arthropods in total, in this sample, have six or eight legs?

- A** 15 **B** 88 **C** 90 **D** 98

13. 0610_w19_qp_21 Q: 4

Which features do animal cells share with plant cells?

	chloroplast	cytoplasm	nucleus
A	✓	✓	✓
B	✓	✗	✓
C	✗	✓	✓
D	✗	✗	✗

key

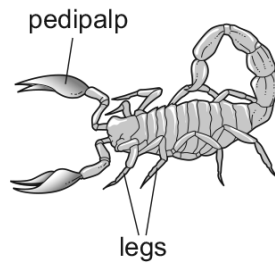
✓ = yes

✗ = no

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14. 0610_w19_qp_22 Q: 3

The diagram shows an arthropod.



To which group does it belong?

- A** arachnids
- B** crustaceans
- C** insects
- D** myriapods

15. 0610_w19_qp_23 Q: 3

Which feature 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

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1.3. FEATURES OF ORGANISMS

16. 0610_m18_qp_22 Q: 3

The diagram shows part of a flowering plant.



Using the key, identify this plant.

- 1 three petals go to 2
 more than three petals go to 3
- 2 leaves longer than they are wide **A**
 leaves wider than they are long **B**
- 3 leaves parallel-veined **C**
 leaves not parallel-veined **D**

17. 0610_s18_qp_21 Q: 3

What kind of skin do amphibians have?

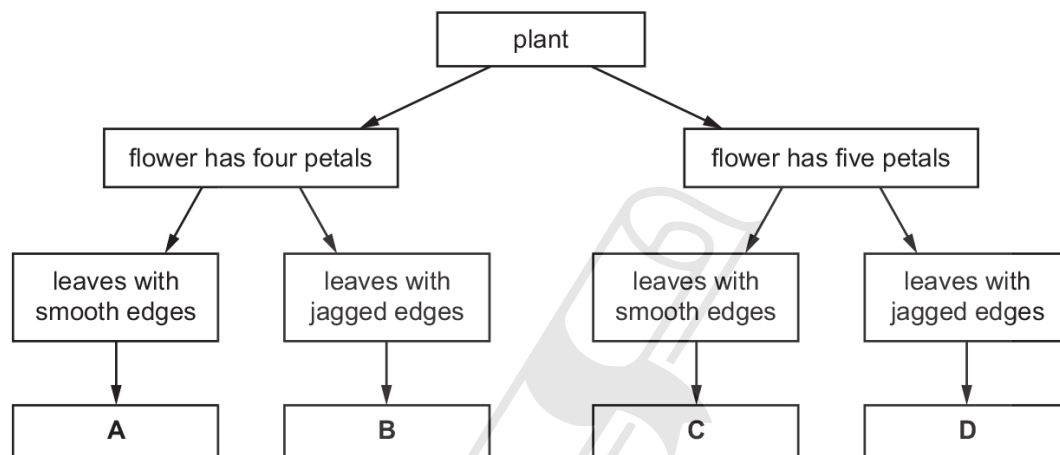
- A** dry without scales
 - B** dry with scales
 - C** moist without scales
 - D** moist with scales
-

18. 0610_s18_qp_21 Q: 4

The diagram shows a flowering plant.



Use the key to identify the plant.



19. 0610_w18_qp_22 Q: 2

Lichens are formed from two different organisms living together.

The table shows some of the characteristics of two organisms, X and Y, found in most lichens.

X	Y
made of strands called hyphae hyphae have cell walls and many nuclei	single celled cell contains a nucleus and chloroplasts

Which kingdoms are represented by X and Y?

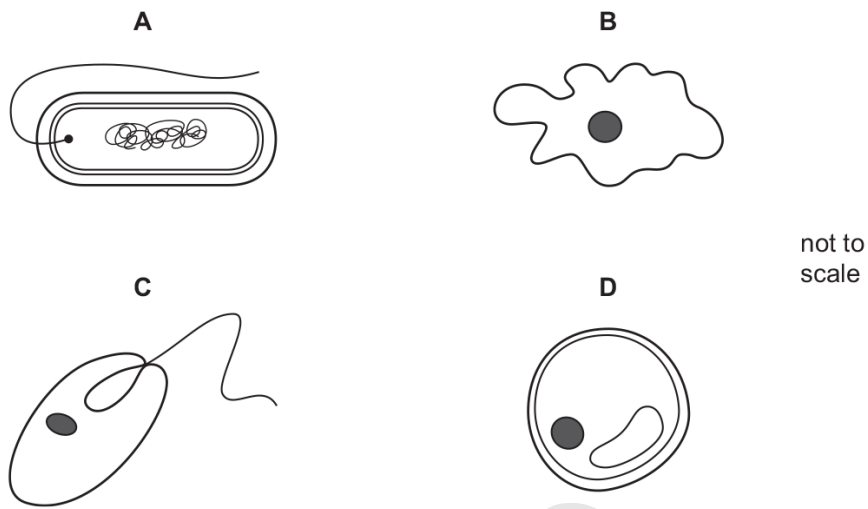
	X	Y
A	Fungus	Plant
B	Fungus	Protocist
C	Protocist	Fungus
D	Protocist	Plant

1.3. FEATURES OF ORGANISMS

20. 0610_w18_qp_23 Q: 2

The diagrams show four organisms not drawn to the same scale.

Which organism is a prokaryote?



21. 0610_m17_qp_22 Q: 1

The drawing shows a ground squirrel.



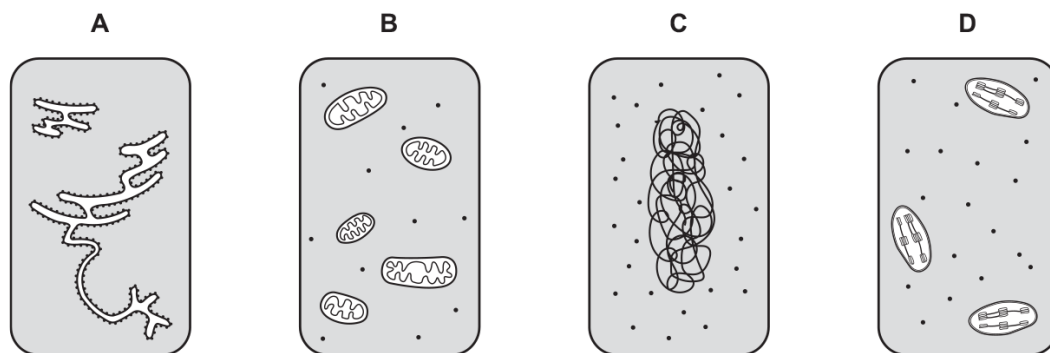
Which feature identifies this animal as a mammal?

- A** eye
- B** four limbs
- C** fur
- D** tail

22. 0610_s17_qp_21 Q: 3

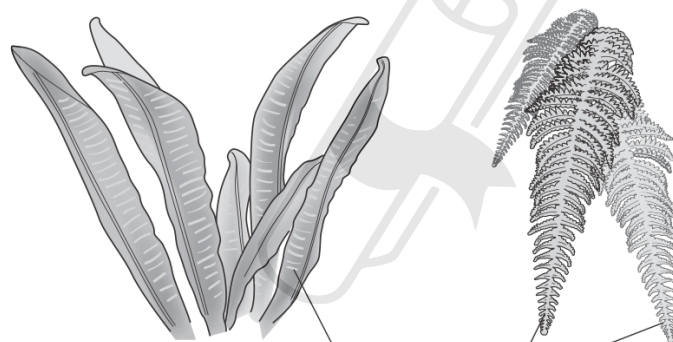
Each of the diagrams shows an area of cytoplasm.

Which is from a prokaryote?



23. 0610_w17_qp_22 Q: 1

To which group do **both** the organisms shown in the diagram belong?

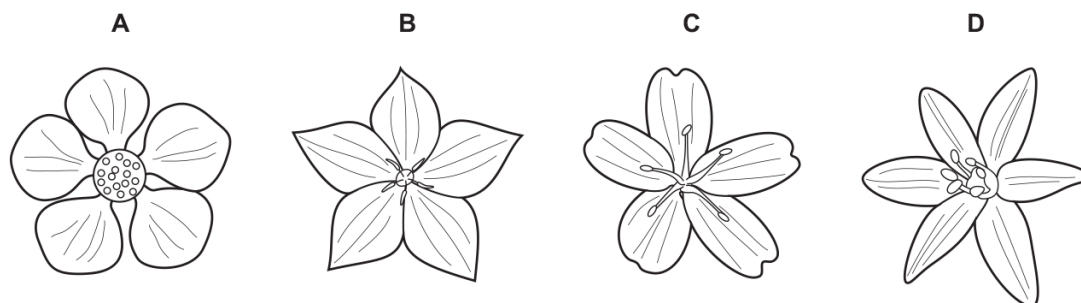


- A dicotyledons
- B ferns
- C fungi
- D monocotyledons

1.3. FEATURES OF ORGANISMS

24. 0610_s16_qp_22 Q: 2

Which diagram shows a flower from a monocotyledon?



25. 0610_w16_qp_21 Q: 2

What is a characteristic of amphibians but **not** of reptiles?

- A four limbs
- B laying eggs in water
- C scaly skin
- D using lungs for breathing

26. 0610_w16_qp_21 Q: 3

The diagram shows an insect.



Use the key to identify the insect.

- 1 wings present go to 2
- wings absent A
- 2 two pairs of wings go to 3
- one pair of wings B
- 3 wings with circular markings C
- wings without circular markings D

27. 0610_w16_qp_23 Q: 2

Scientists discover a new species of animal.

It has a segmented body with two pairs of legs on each segment.

To which group of animals does this new species belong?

- A arachnids
 - B crustaceans
 - C insects
 - D myriapods
-



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SN	Paper	Q. No.	Answer
01	0610_m22_qp_22	2	C
02	0610_m21_qp_22	3	C
03	0610_m21_qp_22	4	C
04	0610_s21_qp_21	2	A
05	0610_s21_qp_21	3	D
06	0610_s21_qp_21	4	C
07	0610_s21_qp_22	3	D
08	0610_m20_qp_22	3	B
09	0610_p20_qp_20	2	D
10	0610_w20_qp_21	2	B
11	0610_w20_qp_22	2	B
12	0610_w19_qp_21	3	C
13	0610_w19_qp_21	4	C
14	0610_w19_qp_22	3	A
15	0610_w19_qp_23	3	B
16	0610_m18_qp_22	3	D
17	0610_s18_qp_21	3	C
18	0610_s18_qp_21	4	D
19	0610_w18_qp_22	2	B
20	0610_w18_qp_23	2	A
21	0610_m17_qp_22	1	C
22	0610_s17_qp_21	3	C
23	0610_w17_qp_22	1	B
24	0610_s16_qp_22	2	D
25	0610_w16_qp_21	2	B
26	0610_w16_qp_21	3	D
27	0610_w16_qp_23	2	D

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