

- A. only one cell.
- B. at least three cells.
- C. at least 100 cells.
- D. one or more cells.

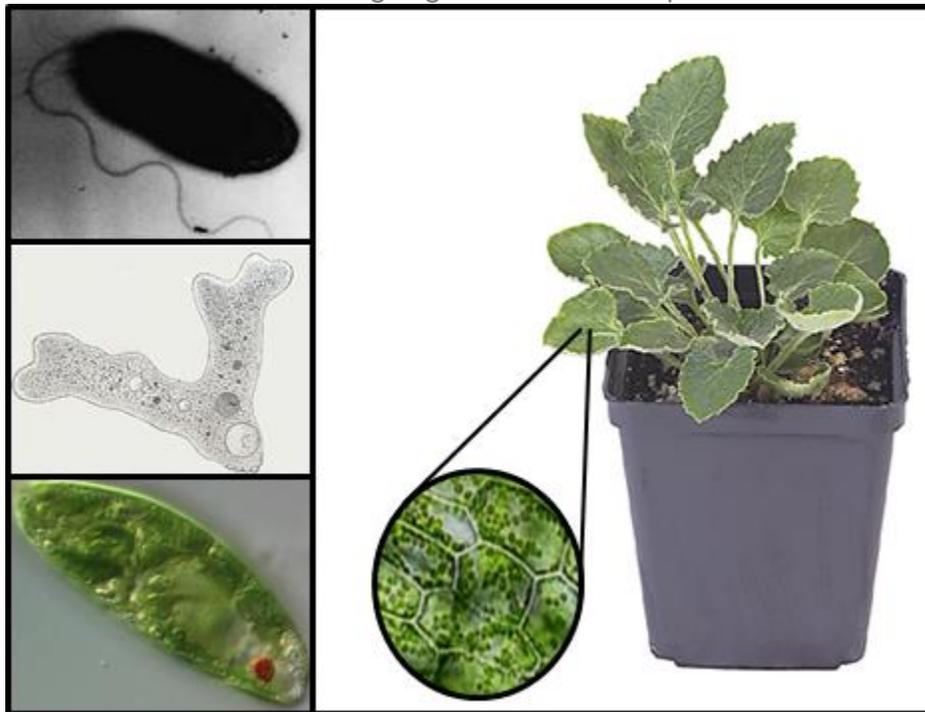
Question 2

Add

Directions: Select each correct answer.

The diagram below shows four different living organisms.

All living organisms are composed of



Images courtesy of NIH, NOAA, and Wikipeda

Which of the following is a component of cell theory that is supported by the diagram above?

-

All cells come from pre-existing cells.

-

Cells are the basic units of life.

-

All living organisms are composed of cells.

-

All cells have the same shape and function.

Question 3

Add

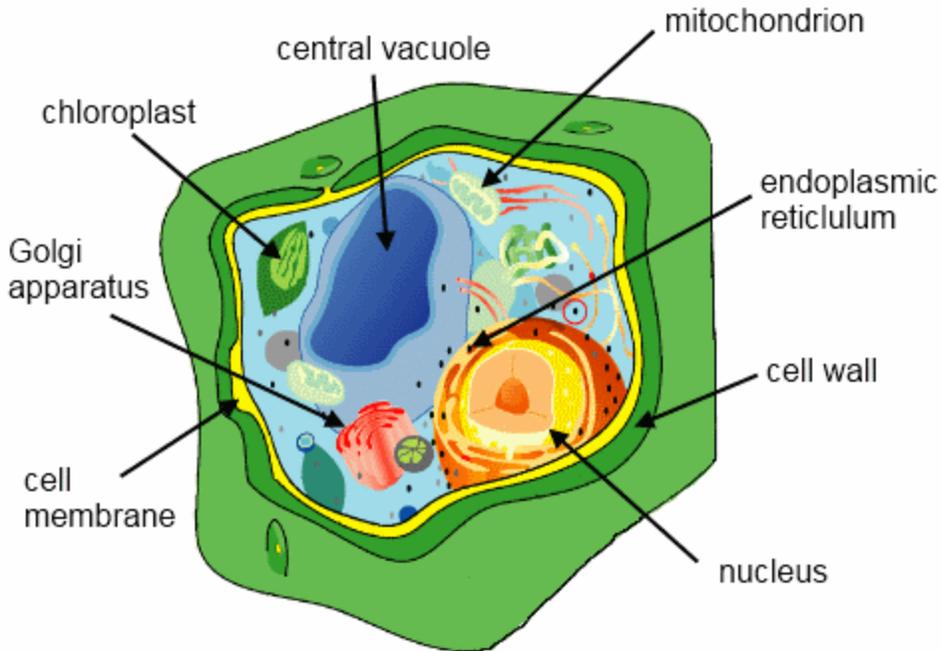
Which of the following statements is part of the cell theory?

- A. Cells are the basic units of living things.
- B. All living things are made up of one or more cells.
- C. All cells come from pre-existing cells.
- D. all of these

Question 4

Add

Examine the diagram of the cell below.



Adapted from image courtesy of Wikipedia

What can you conclude about this cell?

- A. The cell is most likely a human cell.
- B. The cell is most likely a plant cell.
- C. The cell is most likely a bacterium cell.
- D. The cell is most likely an animal cell.

Question 5

Add

Which of the following is similar among all living organisms on Earth?

- A. cellular function
- B. social behavior
- C. physical appearance
- D. all of these

Question 6

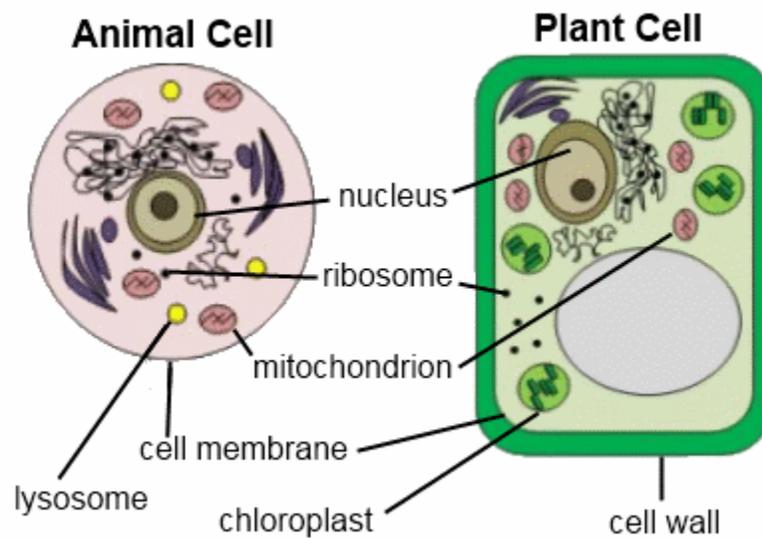
Add

Different plant and animal species have a great variety of body structures that help them survive and reproduce. Which of the following is also true?

- A. The individual cells of plants and animals function in very similar ways.
- B. The individual cells of plants and animals do not share any similarities.
- C. The individual cells of plants and animals cannot perform specialized functions.
- D. The individual cells of plants and animals do not contain genetic information.

Question 7

Add



Which of the following structures would normally be found in a plant cell but not in an animal cell?

- A. nucleus
- B. cell wall
- C. cell membrane
- D. mitochondrion

Question 8

Add

During science class, a group of students went on a field trip to a nearby pond where they collected samples of pond water and pond plants. The students used a microscope to study cells in their samples. They also took samples of their own cheek cells and studied them using the microscope. The results are shown in the following table.

<i>Sample</i>	<i>Nucleus</i>	<i>Cell Membrane</i>	<i>Cell Wall</i>	<i>Cytoplasm</i>	<i>Chloroplast</i>	<i>Vacuole</i>
<i>cheek cells</i>	X	X		X		X
<i>pond plant cells</i>	X	X	X	X	X	X
<i>pond organism #1</i>	X	X	X	X	X	X
<i>pond organism #2</i>	X	X		X		X

Using the table provided, determine which of the following pairs of organelles or structures can be found in both plant and animal cells.

- A. cell wall and chloroplast
- B. cell wall and nucleus
- C. vacuole and chloroplast
- D. cell membrane and nucleus

Question 9

Add

During science class, a group of students went on a field trip to a nearby pond where they collected samples of pond water and pond plants. The students used a microscope to study cells in their samples. They also took samples of their own cheek cells and studied them using the microscope. The results are shown in the following table.

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<i>cheek cells</i>	X	X		X		X
<i>pond plant cells</i>	X	X	X	X	X	X
<i>pond organism #1</i>	X	X	X	X	X	X
<i>pond organism #2</i>	X	X		X		X

Looking at the chart provided, the students need to develop a classification scheme to distinguish plant and animal cells. The presence of which of the following structures/organelles would be most useful for this purpose?

- A. cell wall
- B. nucleus
- C. plasma membrane
- D. vacuole

Question 10

Add

Select the group of organelles that is common to both plant cells and animal cells.

- A. nucleus, cytoplasm, ribosomes, chloroplasts
- B. ribosomes, cell membrane, mitochondria, cytoplasm
- C. cytoplasm, mitochondria, cell wall, nucleus
- D. cell wall, ribosomes, cell membrane, mitochondria

Question 11

Add

Which of the following cell structures is found in plant cells but not in animal cells?

- A. chloroplast
- B. cell membrane
- C. ribosome
- D. cytoplasm

Question 12

Add

Which of the following is a difference between plant cells and animal cells?

- A. Animal cells carry out photosynthesis; plant cells do not.
- B. Animal cells undergo cell division; plant cells do not divide.
- C. Plant cells have a rigid structure, while animal cells have a more flexible structure.
- D. In plant cells, DNA is stored in the mitochondria; in animal cells, the DNA is stored in the nucleus.

Question 13

Add

Ian is looking at cells using a microscope. He sees a nucleus and a large vacuole in the central area of a cell. What type of cell is he most likely looking at?

- A. white blood cell
- B. plant cell
- C. animal cell
- D. prokaryotic cell

Question 14

Add

The diagram below compares the structures of an animal cell and a bacterial cell.

