

How do plant and animal cells differ?

Lesson Review

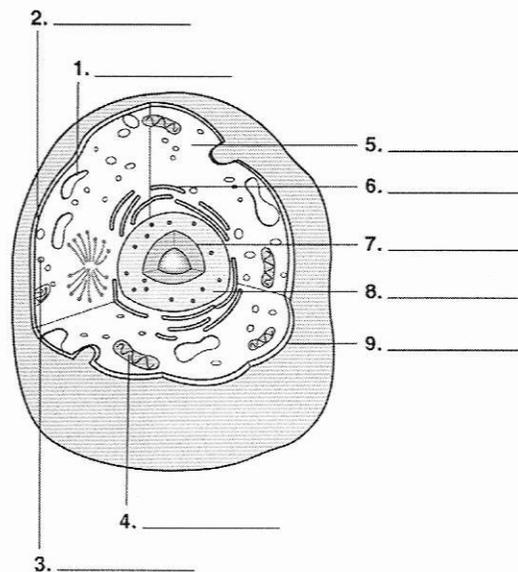
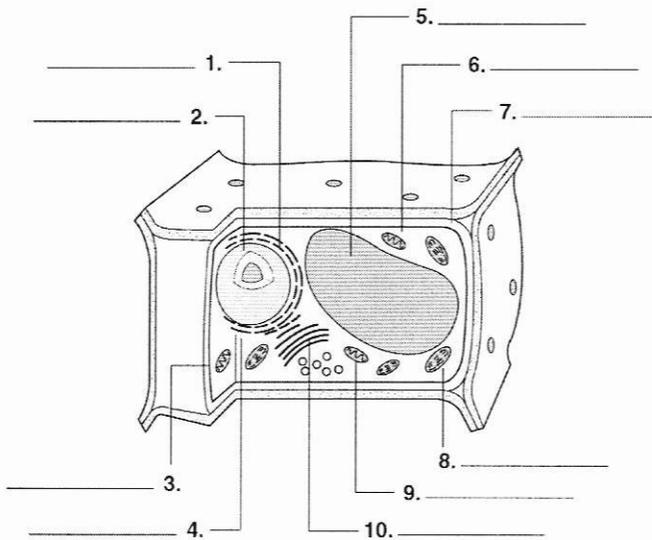
Complete the table by writing *yes* if the cell contains the structure or substance indicated on the left and *no* if the cell does not contain the structure or substance indicated.

COMPARING PLANT AND ANIMAL CELLS		
Structure or Substance	Plant Cell	Animal Cell
1. cellulose		
2. nucleus		
3. chlorophyll		
4. cell wall		
5. cytoplasm		
6. cell membrane		
7. mitochondria		
8. ribosomes		
9. vacuoles		
10. chloroplast		

Skill Challenge

Skills: diagramming, labeling

Label the parts of the plant and animal cells in the spaces provided.



For dances in the northern style, the other dancers and I wear lion costumes with shaggy yellow fur and long manes. **15** Our pants are yellow, similar to the fur, and our shoes are decorated to resemble lions' claws. As a result, our movements are lifelike, and we often use our legs to prance dramatically. We also dance in family pairs: two adult lions and two young lions. These dances require great agility. We perform stunts such as balancing on balls, lifting one another up, and **16** hanging on drums.

Southern Chinese Lion Dancing is based on an ancient **17** tale that originated a very long time ago. Terrorized by a mythical monster, a group of villagers huddled under an enormous monster of their own in an attempt to repel the beast. As a result, the southern "lion" resembles a dragon. It thrusts its head to the **18** sound of: drums, gongs and cymbals, and we must precisely coordinate our movements with the rhythm of the instruments. Our costumes are red, symbolizing bravery; green, symbolizing friendship and goodwill; and **19** a lively, dynamic spirit is symbolized by gold. At each performance, we repeat the ritual to the accompaniment of firecracker bursts and drums.

15

Which choice most effectively sets up the sentence that follows?

- A) NO CHANGE
- B) The Chinese lion dance is often mistakenly referred to as dragon dance.
- C) This style of dancing is based on close observation of the lion's actual behavior.
- D) The lion's head is traditionally constructed from papier-mâché and a bamboo frame.

16

Which choice adds a third example most similar to the examples already in the sentence?

- A) NO CHANGE
- B) leaping high into the air.
- C) kicking our legs.
- D) singing traditional songs.

17

- A) NO CHANGE
- B) tale, which originated long ago.
- C) tale, and this was very old.
- D) tale.

18

- A) NO CHANGE
- B) sound of drums, gongs, and cymbals,
- C) sound, of drums gongs, and cymbals
- D) sound of drums, gongs, and cymbals –

19

Which choice maintains the pattern already established in the sentence

- A) NO CHANGE
- B) a dynamic spiriting being symbolized by gold.
- C) gold, symbolizing a dynamic spirit.
- D) gold, which symbolizes a dynamic spirit.

Questions 12-22 are based on the following passage.

The Dancing Lion

Ornately decorated lion heads with bright, wide eyes bob and dodge their way among the crowds. From beneath my mask, I can see the crowds laughing and cheering. I am a Chinese Lion dancer. As a child, I always loved watching the lion dancers, and my siblings and I would even try to imitate **12** they're movements. When I got a little older, I studied the martial arts that strongly influenced Lion Dancing; however, it was not until I began college that I joined my first Lion Dancing troupe.

Since the Han Dynasty (180-230 A.D.), Lion Dancing **13** is an important Chinese tradition – one that has now been transported around the world. **14** It was first performed as a demonstration of martial arts skills. It later evolved to take the lion's expression and natural movements into account. Today, my fellow dancers and I take to the stage for celebrations including anniversaries, birthdays, and store openings. We also dance in parades for festivals such as Chinese New Year.

12

- A) NO CHANGE
- B) their
- C) there
- D) his or her

13

- A) NO CHANGE
- B) was
- C) has been
- D) would be

14

Which choice most effectively combines the sentences at the underlined portion?

- A) First being performed as a demonstration of martial arts skills and later evolving to take the lion's expression and natural movements into account.
- B) First performed as a demonstration of martial arts skills, it later evolved to take the lion's expression and natural movements into account.
- C) First performed as a demonstration of martial arts skills, the lion's expression and natural movements were later taken into account.
- D) It was first performed as a demonstration of martial arts skills, but the evolution to take the lion's expression and natural movements into account came later.

- 6 -

Today, some historians question whether Banneker's role in reconstructing L'Enfant's plan was exaggerated.

10 However, it seems improbable that he was singlehandedly capable of recalling every last detail. More likely, the other members of the surveying committee played a significant part as well. What is not up for dispute, however, is Banneker's legacy. He used his reputation to promote social change and to eliminate racism and war. In his later years, he won friends and admirers both in the United States and abroad, serving as an inspiration to people around the world. **11**

10

- A) NO CHANGE
- B) Indeed,
- C) Meanwhile,
- D) Consequently,

Think about the passage as a whole as you answer question 11.

11

To make the passage most logical, paragraph 5 should be placed

- A) where it is now.
- B) after paragraph 1.
- C) after paragraph 2.
- D) after paragraph 3.

- 4 -

When L'Enfant disappeared along with his plans, Banneker stepped in and, as legend has it, salvaged the entire project. As the story goes, he reproduced L'Enfant's entire plan, including every last street, park, and important building. What's more, he **6** accomplished this feat in only two days. Thus, the city of Washington, D.C. can be considered a testament to Banneker's extraordinary talent.

- 5 -

Enter Benjamin Banneker. In the early 1790s, Banneker was known as expert in a variety of fields. He had accurately predicted the dates of solar eclipses and designed a farm whose crops kept American troops from starving during the Revolutionary War. Furthermore, Banneker was beginning to establish an international reputation. **7** In 1788, Banneker began a more formal study of astrology. Impressed by Banneker's numerous **8** accomplishments, Thomas Jefferson, who recommended that Banneker be appointed to the surveying team responsible for **9** lying out the city of Washington, D.C.

6

- A) NO CHANGE
- B) did this thing
- C) consummated this endeavor
- D) finished this idea

7

Which choice best supports the statement made in the previous sentence?

- A) NO CHANGE
- B) As a teenager, Banneker befriended Peter Heinrichs, a Quaker who established a school near the Banneker farm.
- C) His almanacs were read in countries as far away as England and France.
- D) Banneker expressed his views on equality in a series of letters to Thomas Jefferson.

8

- A) NO CHANGE
- B) accomplishments; Thomas Jefferson
- C) accomplishments, and Thomas Jefferson
- D) accomplishments, Thomas Jefferson

9

- A) NO CHANGE
- B) laying out
- C) stretching out
- D) elongating

- 2 -

Shortly after the end of the Revolutionary War, George Washington hired the French **2** architect, Pierre L'Enfant to design the plans for the new capital. L'Enfant was young – only 22 years old – and enthusiastic about designing a capital city that would remain a district apart from the states themselves. He **3** exhibited a grand metropolis that would include nearly 10 square miles and be full of broad, sweeping boulevards.

- 3 -

Unfortunately, designing the capital proved to be easier than building it. **4** Stubborn and short-tempered, **5** clashes between L'Enfant and the other members of the planning committee quickly occurred. In 1792, only a year after he had begun work on the project, L'Enfant was fired. He stormed away, taking all of the plans for the city with him.

2

- A) NO CHANGE
- B) architect, Pierre L'Enfant,
- C) architect Pierre L'Enfant
- D) architect: Pierre L'Enfant

3

- A) NO CHANGE
- B) envisioned
- C) imported
- D) predicted

4

At this point, the writer wants to add specific information that supports the main topic of the paragraph.

- A) The project experienced numerous delays, and construction proceeded more slowly than anyone had expected.
- B) Both Thomas Jefferson and George Washington agreed that Washington, DC should be located on a main waterway.
- C) L'Enfant's plan for a tract encompassing 10 square miles rejected Jefferson's preference for a small village that would gradually expand.
- D) L'Enfant was so inspired by the cause of America's Revolutionary War that he had volunteered to serve in the conflict.

5

- A) NO CHANGE
- B) L'Enfant quickly clashed with the other members of the planning committee.
- C) the result of L'Enfant's behavior was clashes between him and the other members of the planning committee.
- D) the occurrence of clashes between L'Enfant and the other members of the planning committee was quick.

Writing and Language Test

35 MINUTES, 44 QUESTIONS

Turn to Section 2 of your answer sheet to answer the questions in this section.

DIRECTIONS

Each passage below is accompanied by a number of questions. For some questions, you will consider how the passage might be revised to improve the expression of ideas. For other questions, you will consider how the passage might be edited to correct errors in sentence structure, usage, or punctuation. A passage or a question may be accompanied by one or more graphics (such as a table or graph) that you will consider as you make revising and editing decisions.

Some questions will direct you to an underlined portion of a passage. Other questions will direct you to a location in a passage or ask you to think about the passage as a whole.

After reading each passage, choose the answer to each question that most effectively improves the quality of writing in the passage or that makes the passage conform to the conventions of standard written English. Many questions include a "NO CHANGE" option. Choose that option if you think the best choice is to leave the relevant portion of the passage as it is.

Questions 1-11 are based on the following passage.

A Capital Tale

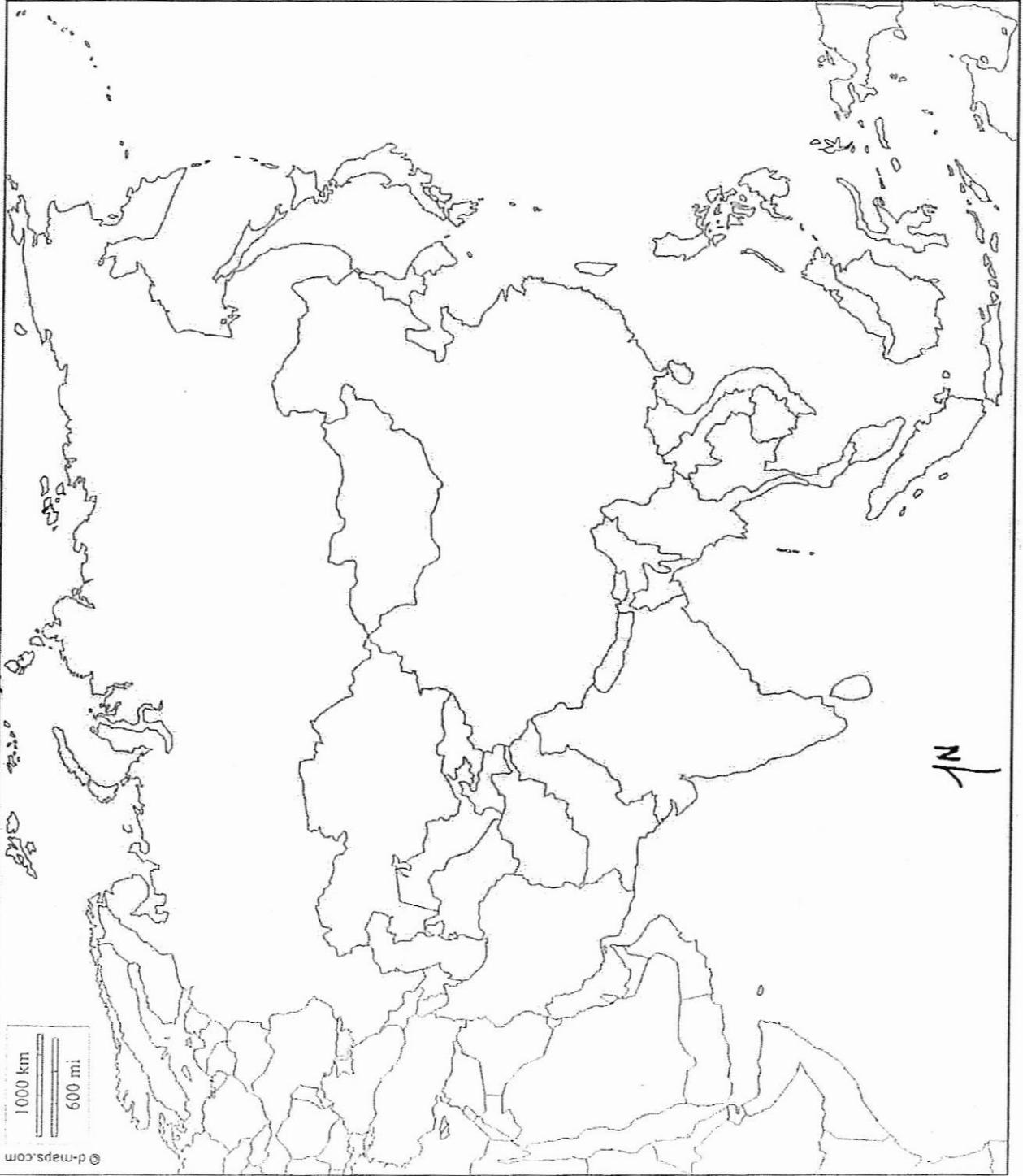
- 1 -

Benjamin Banneker was an inventor. He was also an astronomer, writer, and **1** working as a city planner. One of the few African Americans to earn international distinction in science during the nineteenth century, he built a wooden clock from scratch, published a famous almanac, and campaigned against slavery. And were it not for him, the city of Washington, D.C. as it appears today would not exist.

1

- A) NO CHANGE
- B) being a city planner.
- C) city planner.
- D) to work as a city planner.

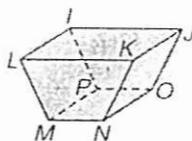
Label all countries and bodies of water



12

Chapter 12 Cumulative Review

1. Name all the planes represented in the figure at the right. (Lesson 1-3)

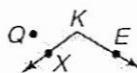


1. _____

2. Describe how to plot the point $M(-3, -4)$ on a coordinate plane. (Lesson 2-4)

2. _____

3. In the figure at the right, is point Q in the interior, exterior, or on $\angle XKE$? (Lessons 3-1)



3. _____

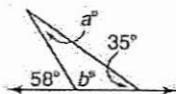
4. Angles 1 and 2 are vertical angles. Find the value of x if $m\angle 1 = 2x + 7$ and $m\angle 2 = 4x - 9$. (Lesson 3-6)

4. _____

5. Given the points $G(-2, 7)$, $H(3, 6)$, $P(4, 2)$, and $Q(9, 1)$, are \overline{GH} and \overline{PQ} parallel, perpendicular, or neither? (Lesson 4-5)

5. _____

6. Find the value of each variable in the figure at the right. (Lesson 5-2)

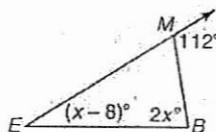


6. _____

7. The lengths of the sides of a triangle are 20, 48, and 51. Is the triangle a right triangle? (Lesson 6-6)

7. _____

8. Refer to the figure at the right. Find $m\angle B$ and $m\angle E$. (Lesson 7-2)

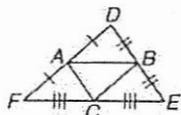


8. _____

9. The measures of the four angles of a quadrilateral are x , $2x$, $3x$, and $4x + 10$. Find the measures of the angles. (Lesson 8-1)

9. _____

10. In the figure at the right, find DF if $BC = 6\frac{1}{2}$. (Lesson 9-5)

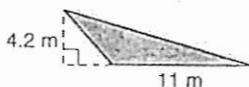


10. _____

11. Find the sum of the measures of the interior angles of a pentagon. (Lesson 10-2)

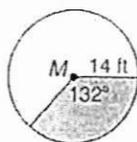
11. _____

12. Find the area of the triangle shown at the right. (Lesson 10-5)



12. _____

13. Find the area of the shaded sector of $\odot M$ at the right. Round to the nearest hundredth. (Lesson 11-6)



13. _____

14. Find the surface area of a rectangular prism with width 7 inches, length 14 inches, and height 5 inches. (Lesson 12-2)

14. _____

Snow Packet Day 4

- Math**- Chapter 12 Cumulative Review
- History**- Label all the bodies of water and the countries on the map of Asia.
- English**- Complete Writing and Language 4 reading and do the following questions to #22.
- Science**- *How do plant and animal cells differ?*