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Student Name: _____ Date: _____

QUIZ 1

A. Choose the best word that makes each sentence complete.

1. In the late 1800s, Gregor Mendel began an _____ study using 29,000 pea plants.
2. He wanted to know how _____ plants produced different-looking young.
3. Mendel noticed that certain _____ in pea plants follow a pattern from generation to generation.
4. He _____ an idea that is the basis of modern genetics.
5. Using _____ to study his data, Mendel learned that the plants received certain "factors" from each parent.
6. Today we know that Mendel's "factors," which we now call "genes," _____ who and what we are.

B. Choose whether each word is an adjective, noun or verb. Click on the boxes to select your answer.

- | | |
|---------------|------------------|
| 1. determine | 7. genetics |
| 2. identical | 8. set out |
| 3. adapt | 9. ambitious |
| 4. trait | 10. come up with |
| 5. statistics | 11. typical |
| 6. generation | 12. preserve |

C. Complete the graph by dragging the correct past tense verbs from the list into appropriate blanks.

has been studying

had worked

was working

studied

joined

has lived

graduated

Since he _____ from college, Joanna _____ on three different continents: North America, South America, and Antarctica. In college, she _____ marine biology and her first job was in a research laboratory on Catalina Island, off the coast of California. While she _____ here, she was able to dive and explore the marine life every day. After she _____ there for two years, Joanna _____ a research team that went to the Galapagos Islands to study the Galapagos penguin populations. That eventually led her to Anvers Island in Antarctica, where for the last three months she _____ Chin-strap penguin colonies near Palmer Station.

D. Watch the video, then select the correct phrase to complete each statement.

- 1) Using DNA obtained from cheek swabs, scientists can reveal our ancestry going back ____ of years.
 - a. thousands
 - b. hundreds
 - c. millions
- 2) _____ are among the most physically diverse species on the planet.
 - a. Apes
 - b. Humans
 - c. Primates
- 3) From human to human, DNA sequences _____.
 - a. are almost identical
 - b. vary widely
 - c. are somewhat similar
- 4) According to one man in the video, the more you know about your past _____.
 - a. the sooner you'll discover something unexpected
 - b. the better you can understand yourself
 - c. the likelier you can change your life

- 5) One woman in the video can trace her ancestry to South Korea, Ireland, England, Germany, and ____.
- a. southern India
 - b. Japan
 - c. North America before the arrival of the Europeans
- 6) ____ has had a major impact on our physical features.
- a. Climate
 - b. Diet
 - c. Geography

E. Watch the video. Based on the video, select the correct phrase to complete each statement.

1. The people who volunteered DNA samples for this genealogical study included ____.

 - Egyptians
 - Canadians
 - Native New Yorkers

2. Genealogy allows us to trace our heredity as far back as ____.

 - our parents
 - four or five generations
 - our great-grandparents

3. At the genetic level, people are ____.

 - almost genetically identical
 - not related
 - genetically distinct

4. The people in the video show how ____ people in New York are.

 - similar
 - educated
 - diverse

5. The people in the video are ____ about their deep ancestry.

 - curious
 - jealous
 - uneasy

6. Using DNA testing to determine our heredity ____.

 - is quicker and easier than looking at a family tree
 - allows us to look farther back in time
 - tells us more about our parents and grandparents