

Genetics

Brainpop—Heredity

Name:

Period:

Watch the Brainpop on genetic mutations, then answer the questions below. You can also check Chapter 6, Section 2 of your textbook if you are getting stuck.

_____ 1. Which of the following have you inherited completely from your parents?

- a. your eye color
- b. your music preference
- c. your personality
- d. your weight

_____ 2. What is heredity?

- a. the passing of traditions from parents to their children
- b. a type of asexual reproduction
- c. the passing of traits from parents to offspring
- d. another term for sexual reproduction

_____ 3. What can you conclude about Gregor Mendel from the information presented in the movie?

- a. the Catholic Church forced him to stop his experiments
- b. he was one of the first researchers to establish how heredity worked
- c. he concluded that heredity worked for people as well as plants
- d. he established all the principles of modern genetics

_____ 4. Which term best describes how Mendel conducted his experiments?

- a. occasionally
- b. carelessly
- c. diligently
- d. quickly

_____ 5. What did Mendel learn about pea plants?

- a. the tall plant trait dominates the short plant trait
- b. the short plant trait dominates the tall plant trait
- c. neither the short nor tall trait is dominant
- d. both the short and tall traits are dominant

_____ 6. What percentage of pea plants shows the short (recessive) trait?

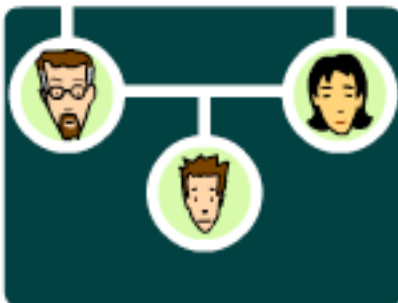
- a. 1 out of 4
- b. 1 out of 2
- c. 1 out of 6
- d. 1 out of 8

_____ 7. There are more people with brown eyes than with blue eyes. What can you infer from this fact?

- a. brown eyes are a successful trait
- b. brown eyes are a submissive trait
- c. brown eyes are a recessive trait
- d. brown eyes are a dominant trait

_____ 8. What can you conclude about a short pea plant?

- a. it has one dominant and one recessive gene
- b. it has a pair of recessive genes
- c. it has a pair of dominant genes
- d. it has no recessive genes



Look at the cartoon of the family tree from the video. What does this have to do with heredity?