

Science practice

Directions: Read each question. Then choose the best answer.

1. Ximena observes a group of the same type of cats. Which inherited trait would most likely be different in the group of cats?

- A the color of fur
- B the ability to purr
- C the number of their legs
- D the sharpness of their teeth

2. Oziel found a plant with purple flowers. He collected its seeds and planted them. All of the offspring had leaves shaped like the leaves of the parent plant. The offspring had different colors of flowers: white, pink, and purple. What does that show? Choose all that are correct.

- A Offspring inherit traits from their parents.
- B Offspring are always exactly like their parents.
- C Offspring may have variations in their traits.
- D Offspring are always exactly like each other.

3. A donkey has the following traits. Which trait has been affected by the environment?

- A soft hair
- B brown eyes
- C a chipped tooth
- D a long tail

4. Which is an example of an acquired trait? Choose all that are correct.

- A A ladybug has spots.
- B A goat has a scar on its face.
- C A robin lays blue eggs.

D A butterfly has a torn wing.

5. What do you call differences between individuals of the same type of plant or animal?

A traits

B acquired traits

C new traits

D variations

6. Apple trees inherit different characteristics. Which of the following would be successful in reproducing? Choose all that are correct.

A a tree that flowers every year

B a tree that does not flower

C a tree that produces apples with many seeds

D a tree that produces seedless apples

7. Which characteristics can children inherit from their parents? Choose all that are correct.

A red hair

B favorite color

C brown eyes

D a suntan

8. A baby orangutan looks like its mother. Why do the baby and its mother look alike?

A The baby and its mother live in the same place.

B The baby eats the same food as its mother.

C The baby inherited traits that make it look like its mother.

D The baby wants to look like its mother.

9. What trait is not passed down from parent to offspring?

A acquired trait

B inherited trait

C shape of a dogs face

D coloring

10. An animal changes its behavior based on interactions with its environment.
What is this change in behavior called?

A inherited trait

B function

C grouping

D learning