

Heredity Questions and Answers

1. What is a gene?	1. It contains hereditary information that is passed from parent to offspring.
2. What is heredity?	2. It is the passing of traits from parent to offspring.
3. What is a trait?	3. A trait is a characteristic of something. Traits can include eye color, skin color, the ability to roll your tongue, and so on.
4. Where are genes found?	4. Genes are parts of DNA which are in the cell nucleus.
5. True or False? Girls get more hereditary information from their moms than boys do. Boys get more from their dads than girls do.	5. False. Boys and girls get the same amount of hereditary information from each parent.
6. What is genetics?	6. It is the study of heredity and variation in organisms.
7. What is a dominant gene?	7. A gene for which the trait ALWAYS appears when present.
8. What is a recessive gene?	8. A gene for which the trait usually only appears when there isn't any dominant gene present.
9. What is a <i>dichotomous key</i> ?	9. It is where there are only two answers to a question, and each answer leads to only two more answers.
10. What is a Punnett Square?	10. It is a tool used by scientists to predict how inherited traits will be passed from the parent to the offspring.
11. What are offspring?	11. children
12. What does "inherited" mean?	12. Something you get from your parents.
13. Which is an inherited trait? a. The number of petals on a flower b. A person's native language	13. The number of petals on a flower
14. Which one is NOT an inherited trait? a. curly or straight tails in pigs b. dogs shaking hands c. birds laying eggs	14. Dogs shaking hands.
15. Height is a trait that is inherited, but can be affected by environment. What environmental factors could affect how tall a person grows to be?	15. How much good food or good nutrition a child has. a. If a child has an accident which results in a leg amputation. b. If a child has an illness which stops growth.
16. What is a "learned trait?"	16. Something that you are not born with. You have to learn how to do it.
17. Which of the following is NOT a learned trait? Riding a bike, Hair color, Counting, Talking	17. Hair color.
18. Which of these IS a learned trait? Skin color, Reading, Straight or curly hair, Tadpoles turning into frogs	18. reading
19. Which of these IS a learned trait? Migration, spinning a web, dog jumping through a hoop.	19. Dog jumping through a hoop.
20. Is your personality an inherited trait or a learned trait?	20. Both! Some of your personality comes from your parents through your genes, and some is learned through your experiences and your environment. Trick question!!! ☺
21. What is another word for an inherited behavior?	21. Instinct
22. Name one way that environment can play a role in making you who you are.	22. Too much food equals too much weight. Too much time in the sun equals sunburn or tan.

23. Where do you get your personality?	23. From both inherited and environmental factors.
24. How much hereditary information do you get from each parent?	24. Equal amounts.
25. True or False? Learned behaviors ARE controlled through hereditary information	25. False. Learned behaviors are taught and are not dependent on hereditary information.
26. Three out of 30 people have dimples. What percent of this population has this trait?	26. $3/30 = 1/10 = 10/100$ 10% have the trait.