

## CHAPTER 12—INHERITANCE PATTERNS AND HUMAN GENETICS

### MULTIPLE CHOICE

1. The X and Y chromosomes are called the **sex chromosomes**.
2. female : XX :: male : XY.
3. Hemophilia is an x-linked, recessive trait. Explain why females rarely get the disease hemophilia? **Females receive 2, X chromosomes. Therefore their chance of receiving 2 alleles for hemophilia are much lower than a males chance of receiving 1 copy of the gene.**
4. A mutation caused by a piece of DNA breaking away from its chromosome and becoming attached to a nonhomologous chromosome is called **translocation**.
5. A change in a gene due to damage or incorrect copying is called **mutation**.
6. The effects of a mutation can be harmful, neutral, or helpful.
7. A diagram in which several generations of a family and the occurrence of certain genetic characteristics are shown is called a **pedigree**.
8. Name a trait that is controlled by multiple alleles in humans. **Hair color, eye color, skin color, height, etc.**
9. What would be the blood type of a person who inherited an A allele from one parent and an O allele from the other? **Type A**.
10. In humans, the risks of passing on a genetic disorder to one's children can be assessed by analysis of a pedigree, genetic counseling and/or genetic testing.
11. Genetic counseling is a process that helps identify risks, assists parents with decisions and uses a family pedigree.
12. While studying several generations of a particular family, a geneticist observed that a certain disease was found equally in males and females and that all children who had the disease had parents who also had the disease. The gene coding for this disease is probably **autosomal dominant**.
13. If both parents carry the recessive allele that causes cystic fibrosis, the chance that their child will develop the disease is 50%. (hint: use a punnett square)
14. If a characteristic is sex-linked, it occurs most commonly in males.
15. Since the allele for colorblindness is located on the X chromosome, colorblindness is a sex-linked trait.
16. People with Down syndrome have 47 chromosomes.
17. The sex of an offspring is determined by the male.
18. If nondisjunction occurs, a gamete will receive too few or too many chromosomes.

# Chapter 1 inheritance Patterns And Human Genetics Answers

**Tobias Bleicker**



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