

Genetics: The Science of Heredity ▪ *Chapter Test*

- _____ 8. During meiosis, sex cells form when chromosome pairs are
- doubled.
 - copied.
 - separated.
 - combined.
- _____ 9. An organism's phenotype is its
- physical appearance.
 - genetic makeup.
 - allele combination.
 - probability of occurring.
- _____ 10. An allele whose trait always shows up in an organism when the allele is present is a
- gene.
 - dominant allele.
 - recessive allele.
 - hereditary factor.

Completion

Fill in the line to complete each statement.

11. According to the chromosome theory of inheritance, _____ are carried from parents to offspring on chromosomes.
12. A _____ is a change in a gene or chromosome.
13. When a plant has two dominant alleles for tall stems, its alleles are written as _____.
14. A(n) _____ organism is the offspring of many generations that have the same trait.
15. The different forms of a gene are called _____.

True or False

If the statement is true, write true. If it is false, change the underlined word or words to make the statement true.

- _____ 16. Each time a coin is tossed, there is a 75 percent chance that the coin will land heads up.
- _____ 17. Chromosomes are made up of proteins joined together like beads on a string.
- _____ 18. The passing of traits from parents to offspring is called codominance.
- _____ 19. Unlike DNA, RNA contains the nitrogen base uracil.
- _____ 20. Probability is a number that describes how likely it is that an event will happen.