

Name _____ Date _____ Period _____

Worksheet: Chapters 6 & 7 Test Review

BIOLOGY: Chapter 6-7

Directions: Use your notes and book to answer the following questions completely. A good effort on the study guide will help improve your performance on the test.

1. Define the following terms:

- a. Homozygous-
- b. Heterozygous-
- c. True breeding-
- d. Genotype-
- e. Phenotype-
- f. Nondisjunction-
- g. Co-dominance-
- h. Incomplete dominance-
- i. Linked genes-
- j. Genetic engineering-

- k. Diploid-
- l. Haploid-
- m. Gene-
- n. Principle of dominance-
- o. Principle of Independent Assortment-
- p. Probability-
- q. Gametes-
- r. Polygenic traits-
- s. Sex-linked traits-
- t. Karyotype-
- u. Inbreeding-

2. What is the purpose of meiosis?

3. How many cells are formed as a result of the meiosis?
4. What is the **N** number of chromosomes in each gamete?
5. What do you call the process where two gametes fuse?
6. What is the name of the cell that is formed as a result of this fusion?
7. **Crossing-over:**
 - a. What process does it occur in?

 - b. What is the result of this process?
8. A human karotype shows 22 pairs of _____, and one pair of _____ . A male has the genotype _____ and a female has the genotype _____.
9. What is the purpose of Punnett squares?
10. State the phenotypic ratio of a dihybrid cross.
11. Skin color in humans is a result of _____ inheritance.
12. **Colorblindness is a sex-linked trait.** Why do males exhibit colorblindness more than females?

13. Punnett Squares: (Complete the Punnett Squares below and give the genotypic and phenotypic ratios of offspring)

a. Cross a homozygous dominant parent with a homozygous recessive parent

GENOTYPIC RATIO:

PHENOTYPIC RATIO:

b. Cross a heterozygous parent with a homozygous recessive parent

GENOTYPIC RATIO:

PHENOTYPIC RATIO:

c. Cross two heterozygous parents

GENOTYPIC RATIO:

PHENOTYPIC RATIO: