

Name: \_\_\_\_\_

Period: \_\_\_\_\_

## Genetics Review ANSWER KEY

1. **What is the main purpose of mitosis?**
  - To recreate body cells
2. **What is the main reason for meiosis?**
  - To create sex cells
3. **Asexual reproduction involves how many parents? Compare the genetic material of the offspring to that of the parent.**
  - 1
  - The genetic material is identical (the same!)
4. **Sexual reproduction involves how many parents? Compare the genetic material of the offspring to that of the parent?**
  - 2
  - The genetic material is a combination of both parents DNA
5. **Most human cells have \_\_\_\_\_ chromosomes but human sex cells have \_\_\_\_\_ chromosomes.**
  - 46
  - 23
6. **At the end of meiosis II, how many sex cells have formed?**
  - 4
7. **Describe each of the following methods of reproduction and tell if it is asexual or sexual.**
  - binary fission – the splitting of a bacteria cell in half
  - conjugation – when two bacteria cells exchange genetic material
  - budding – when an offspring forms on the side of a parent; it will fall off to create a new organism
  - regeneration – when part/parts of an organism can regrow
  - spores – asexual reproductive cells used by fungi
  - fertilization – when an egg and sperm join together to create a zygote
8. **How do bacteria reproduce?**
  - Asexually – binary fission
  - Sexually - conjugation
9. **What are alleles?**
  - Alternate form that a gene may have for a trait; can be dominant or recessive
10. **Define the following words**
  - Allele - Alternate form that a gene may have for a trait; can be dominant or recessive
  - Dominant Trait – a trait that covers over another form of the trait
  - Recessive Trait – a trait that is covered over by another form of the trait; disappears
  - Punnett Square – a tool used to predict the probability of certain traits in offspring that shows the different ways alleles can combine.
  - Probability – the chance that something will happen
  - Phenotype – the physical appearance of a trait
  - Genotype – the genetic make-up of a trait; represented by capital and lower case letters
11. **In a Punnett square what do the capital letters stand for?**
  - Dominant traits
12. **What do the lower case letters stand for?**
  - Recessive traits
13. **Green peas are dominant to yellow peas. If a homozygous dominant seed is crossed with a heterozygous seed, what percentage of their offspring will be green?**
  - 100%
14. **What is an allele that seems to disappear?**
  - Recessive
15. **What is the different forms a gene has for a trait?**
  - Allele
16. **What is an allele that covers up another allele?**
  - Dominant
17. **What helps determine the chance something will occur?**
  - Probability

# Genetics Test Review Answer Key

**Michael Matthew Sampson**



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