**Genetics Test Review**

1. How does meiosis ensure that each reproductive cells only gets one gene for each trait?
2. If a body cell has 16 chromosomes, how many would a sex cell of the same organism have?
3. What type of cell undergoes meiosis?
4. What type of cell results from a fertilized egg?
5. If a dog has a genotype of Bbgg, what are the possible combinations of genotypes that could be present in a gamete?
6. How can a lethal disease be passed from generation to generation?
7. Explain why human males determine the sex of their offspring.
8. In fish, gold (G) is dominant to white (g). a.What are the possible genotypes in the offspring of 2 heterozygous goldfish? b. What percent of the offspring would be gold?
9. What is a sex-linked trait, and how does it affect inheritance from mother to son?
10. In guinea pigs, the allele for rough coat (R) is dominant to the allele for smooth coat (r), and the allele for black fur (B) is dominant to the allele for white fur (b). If two guinea pigs that are heterozygous for rough, black fur are mated, what are the possible phenotypes and what is the frequency of each? Show your work in a Punnett square.

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