

**GENETICS TEST STUDY GUIDE**

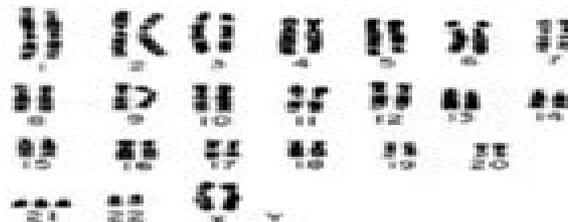
NAME: \_\_\_\_\_  
DATE: \_\_\_\_\_

1. Tongue rolling (R) is dominant over non-tongue rolling (r). If a person cannot roll their tongue, what would be his/her genotype? \_\_\_\_\_
2. Genetic disorders like Down syndrome are caused by \_\_\_\_\_.
3. The failure of one or more pairs of chromosomes to separate is called \_\_\_\_\_.

Round seed pods are dominant over wrinkled seed pods. The Punnett square below shows a cross between parents with round and wrinkled seed pods. Use the following diagram to answer the next three questions.

	R	r
r	A	B
r	D	C

4. What is the phenotype of the offspring in block A? \_\_\_\_\_
5. What is the genotype of the offspring in blocks B and D? \_\_\_\_\_
6. What is the phenotype of the offspring in block C? \_\_\_\_\_
7. In pea plants, purple flowers are dominant to white flowers. If two heterozygous purple plants are crossed, what percent of the offspring will probably be white? \_\_\_\_\_



8. Examination of the diagram indicates that these are the chromosomes of a \_\_\_\_\_ with \_\_\_\_\_.
9. In cats, gene E produces yellow fur and gene B produces black fur. A cat that inherits both of these genes has patches of yellow and black fur and is known as a calico. The alleles for black or yellow are located on the X-chromosome. Calico coat color is most likely due to \_\_\_\_\_ genes.
10. Complete the Punnett square below for a cross of cats.

	$X^B$	Y
$X^B$		
$X^E$		

11. What is the phenotype of the male cat? \_\_\_\_\_
12. What is the phenotype of the female cat? \_\_\_\_\_
13. List what the offspring look like. \_\_\_\_\_
14. In cows, long hair is dominant to short hair. In a cow that is heterozygous for long hair, what percentage of the cells undergoing meiosis will carry the dominant allele? \_\_\_\_\_.

# High School Genetics Study Guide

**RS Peters**



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