

# Chapter 10

## Mendel and Meiosis, continued

### Reinforcement and Study Guide

#### Section 10.1 Mendel's Laws of Heredity

In your textbook, read about phenotypes and genotypes and Mendel's dihybrid crosses.

If the statement is true, write true. If it is not, rewrite the underlined part to make it true.

13. A pea plant with the genotype  $TT$  has the same phenotype as a pea plant with genotype  ~~$t$~~   $Tt$
14. When Mendel crossed true-breeding pea plants that had round yellow seeds with true-breeding pea plants that had wrinkled green seeds, ~~some~~ of the offspring had round yellow seeds because round and yellow were the dominant forms of the traits. All
15. When Mendel allowed heterozygous  $F_1$  plants that had round yellow seed to self-pollinate, he found that ~~some~~ of the  $F_2$  plants had wrinkled green seeds. true
16. The law of independent assortment states that ~~genes~~ for different traits are inherited independently of each other. true

In your textbook, read about Punnett squares and probability.

The Punnett square below is for a dihybrid cross between pea plants that are heterozygous for seed shape ( $Rr$ ) and seed color ( $Yy$ ). Complete the Punnett square by recording the expected genotypes of the offspring. Then answer the questions.

	$RY$	$Ry$	$rY$	$ry$
$RY$	$RRYY$ round, yellow	$RRYy$ round, yellow	$RrYY$ round, yellow	$RrYy$ round, yellow
$Ry$	$RRYy$ round, yellow	$RRyy$ round, green	$RrYy$ round, yellow	$Rryy$ round, green
$rY$	$RrYY$ round, yellow	$RrYy$ round, yellow	$rrYY$ wrinkled, yellow	$rrYy$ wrinkled, yellow
$ry$	$RrYy$ round, yellow	$Rryy$ round, green	$rrYy$ wrinkled, yellow	$rryy$ wrinkled, green

17. Use the chart on the previous page to determine the phenotypes of the offspring. Record the phenotypes below the genotypes in the Punnett square. Is an offspring produced by the cross more likely to have wrinkled seeds or round seeds? Round seeds
18. What is the probability that an offspring will have wrinkled yellow seeds? 3/16

# Mendel And Meiosis Reinforcement And Study Guide

**Sandra Pennington**



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