

SECTION 3-2

REVIEW AND REINFORCE

Probability and Genetics

• Understanding Main Ideas

Complete the two Punnett squares below, and then answer the questions on a separate sheet of paper.

1. Punnett Square A:

	B	b
B	BB	Bb
b	Bb	bb

2. Punnett Square B:

	B	b
B	BB	Bb
b	Bb	bb

- In the cross between two black guinea pigs shown in Punnett Square A, what is the probability that an offspring will be black? White? 75% Black
25% White
- Is it possible that the cross between two black guinea pigs in Punnett Square A would not produce a white guinea pig? Explain. Yes, there is a 75% chance that the offspring will be Black.
- What color are the guinea pig parents in the cross shown in Punnett Square B?
- Which guinea pig parent(s) in Punnett Square B is homozygous? Which is heterozygous? Explain how you know. Bb is Black and bb is white. Bb is heterozygous because they are both the same alleles and BB is homozygous because there are two different alleles.
- Calculate the probability that an offspring will be black in the cross in Punnett Square B. What is the probability that an offspring will be white? 50% chance that the offspring will be Black and 50% chance the offspring will be White.

• Building Vocabulary

Match each term with its definition by writing the letter of the correct definition on the line beside the term.

- _____ 8. heterozygous
- _____ 9. Punnett square
- _____ 10. genotype
- _____ 11. concordance
- _____ 12. probability
- _____ 13. homozygous
- _____ 14. phenotype

- a. a chart that shows all the possible combinations of alleles that can result from a genetic cross
- b. the likelihood that a particular event will occur
- c. an organism that has two identical alleles for a trait
- d. an organism's physical appearance
- e. an organism's genetic makeup, or allele combinations
- f. an organism that has two different alleles for a trait
- g. inheritance patterns in which the alleles are neither dominant nor recessive

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The Princeton Review



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