

# The Statistics of Inheritance

How can statistics help predict the traits of offspring?

## Why?

The randomization of alleles from the parents' genetic material is essential to the survival and evolution of a species. If the combinations of alleles that make up the genetic material in a zygote are truly random, the laws of statistics can be used to predict what traits the offspring will have. This activity starts with a review of Punnett squares, which is one way to make predictions about simple allele combinations. Statistics will then be used to make mathematical predictions about the genotypes of offspring.

### Model 1 – Punnett Squares

Phenotype Genotype



BB



Bb



bb

Female

Male

|   |    |    |
|---|----|----|
|   | B  | B  |
| B | BB | Bb |
| B | Bb | BB |

Cross A

|   |    |    |
|---|----|----|
|   | B  | b  |
| b | Bb | bb |
| b | Bb | bb |

Cross C

|   |    |    |
|---|----|----|
|   | B  | B  |
| B | BB | Bb |
| b | Bb | bb |

Cross B

|   |   |   |
|---|---|---|
|   | B | b |
| B |   |   |
| b |   |   |

Cross D

- Consider the beetle species in Model 1.
  - How many phenotypes for exoskeleton color are exhibited in the population? What are they?
  - How many genotypes for exoskeleton color are exhibited in the population? What are they?
- According to Model 1, which allele, B or b, is the dominant exoskeleton color allele? Justify your answer with specific evidence from Model 1.
- The Punnett squares in Model 1 show the possible outcomes for an offspring resulting from the mating of two beetles.
  - Which Punnett square shows a cross between two homozygous beetles?
  - Which Punnett square shows a cross between a heterozygous beetle and a homozygous recessive beetle?
- Briefly describe how the genotypes inside of the Punnett squares representing the possible outcomes for an offspring are determined.
- Complete the Punnett square for cross D in Model 1. Include drawings to show the phenotypes possible for the offspring that would result.
- Refer to Model 1.
  - In which of the crosses is there a 100% chance that the beetle offspring will have a black exoskeleton?
  - In which of the crosses is the probability 0.75 that the beetle offspring will have a black exoskeleton?
- For cross D in Model 1, what is the probability that the beetle offspring will have a Bb genotype? Show a mathematical calculation to support your answer.

# Pogil Answer Key Statistics Of Inheritance

**Ying Liu**



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