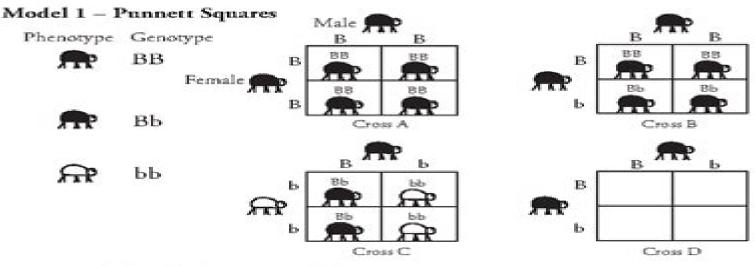
#### The Statistics of Inheritance

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 tygote 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.



- 1. Consider the beetle species in Model 1.
  - a. How many phenotypes for exoskeleton color are exhibited in the population?
  - 6. How many genotypes for exoskeleton color are exhibited in the population?
- According to Model 1, which allele, B or b, is the dominant exoskeleton color allele? Justify your answer with specific evidence from Model 1.

**Rachel S Tattersall** 

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