

Simpsons Genetic Probability Worksheet- Complex Patterns of Inheritance

There are four Punnett square problems featured below. You will be graded on both filling in the Punnett square as well as filling in the correct answer next to the multiple choice questions after each problem.

Problem One: Incomplete Dominance

Homer has decided he wants to go into the dog breeding business and wants to use Santa's Little Helper. Santa's Little Helper is heterozygous light brown (BB'), a combination of dark brown (B) and white (B'). Homer wants to get puppies that are dark brown, light brown and white and has two choices of dogs he can mate with Santa's Little Helper: Penelope, who is also light brown (BB') or Samantha, who is white ($B'B'$). Create Punnett Squares for each dog to help Homer figure out the answer.

Penelope



Samantha

2. Which dog would be best to mate with Santa's Little Helper to get the most different colored puppies?
- Penelope
 - Samantha
 - Neither one
 - Either one (same odds)

Problem Two: Codominance

Itchy and Scratchy created two brand new breeds of flowers: one lime green (GG) and one bright orange (OO). Green is codominant with orange. Itchy and Scratchy know that because of codominance, if they cross these two plants, the flowers should be both green and orange. If they cross these two plants, how many will be both green and orange if they grow ten plants?

Itchy & Scratchy



_____ 3. How many out of 10 will be orange and green?

- 0
- 5
- 7
- 10

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