

Case 11, Challenge 2: Shine On, Copper Drake!

You may be noticing that the Journeyman Challenges are a little more difficult and require more planning and organization. You can do this!

Advice for Journeymen

- The following data tables are only meant to give you guidance and get you started solving this challenge. You will need to continue your work on additional paper.
- You may find it useful to modify these data tables to better suit your needs.
- As always, some of your data will serve as evidence to support your claim about how color is inherited.

Breed the drakes to find patterns in their clutches to explain how each of the four colors is inherited.

Breed #1

Parents used in this breed

Parent	Color	Where it came from
Female		Mother Pool
Male		Father Pool

(a) What can this breed tell me about how color is inherited?

Offspring	Total #	# Females	#Males
Lava			
Copper			
Charcoal			
Steel			

(b) What offspring will you save for future breeding and why? (For example, "I will save a lava female because _____.")

Breed #2

Parents used in this breed

Parent	Color	Where it came from
Female		Mother Pool
Male		Father Pool

(a) What can this breed tell me about how color is inherited?

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Offspring	Total #	# Females	#Males
Lava			
Copper			
Charcoal			
Steel			

(b) What offspring will you save for future breeding and why? (For example, "I will save a lava female because _____.")

Breed #3

Parents used in this breed

Parent	Color	Where it came from
Female		
Male		

(a) What can this breed tell me about how color is inherited?

Offspring	Total #	# Females	#Males
Lava			
Copper			
Charcoal			
Steel			

(b) What offspring will you save for future breeding and why? (For example, "I will save a lava female because _____.")

Breed #4

Parents used in this breed

Parent	Color	Where it came from
Female		
Male		

(a) What can this breed tell me about how color is inherited?

Offspring	Total #	# Females	#Males
Lava			
Copper			
Charcoal			
Steel			

(b) What offspring will you save for future breeding and why? (For example, "I will save a lava female because _____.")