

Basic Genetics Practice Problems

Part 1: Mendel's Works

Mendel made the following crosses with pea plants. Complete the Punnett Squares and answer the following questions.

	R	R
r	Rr	Rr
r	Rr	Rr

1

	R	R
R	RR	RR
r	Rr	Rr

2

	R	r
R	RR	Rr
r	Rr	rr

3

	R	r
r	Rr	rr
r	Rr	rr

4



R = red flowers

r = white flower

- He crossed a red flowered R plant with a white flowered r plant. His results were 126 red flowered plants and 122 white flowered plants. Which of the Punnett squares above best show the parents and offspring that could give these results?
Punnett square #4 best shows the parents and offspring from this cross.
- He crossed a red flowered plant with a white flowered plant. His results were 307 red flowered plants and 0 white flowered plants. Which of the Punnett squares above best show the parents and offspring that could give these results?
Punnett square #1 best shows the parents and offspring from this cross.
- He crossed a red flowered plant with a red flowered plant. His results were 306 red flowered plants and 110 white flowered plants. Which of the Punnett squares above best show the parents and offspring that could give these results?
Punnett square #3 best shows the parents and offspring from this cross.
- He crossed a red flowered plant with a red flowered plant. His results were 300 red flowered plants and 0 white flowered plants. Which of the Punnett squares above best show the parents and offspring that could give these results?
Punnett square #2 best shows the parents and offspring from this cross. It is possible that Punnett square #3 could have produced these results as well and just by chance, none of the offspring were white.

Part 2: Monohybrid Crosses

- In minks, coat color is controlled by a single gene. The allele for a brown (B) coat is dominant to the allele for silverblue (b) coats.
B = brown coats
b = silverblue coats
 - A homozygous brown mink was crossed with a silverblue mink. There were 9 offspring in the F1 generation. What color were they?
All 9 offspring would be brown. They each inherited the dominant all from their brown parent.
Cross: BB x bb

	B	B
b	Bb	Bb
b	Bb	Bb

Biology 102 Genetics Practice Problems Answers

M Mosston



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