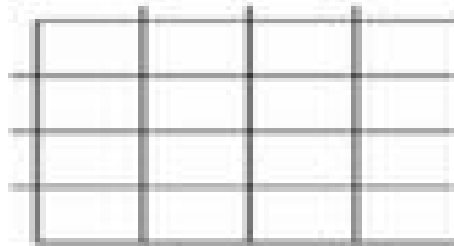


9. In guinea pigs, rough coat is dominant (R) to smooth coat (r) and black coat (B) is dominant to white coat (b). A rough black guinea pig bred with a rough white one produces 29 rough black offspring, 31 rough white offspring, 11 smooth black, and 9 smooth white. Give the genotypes of the parents, the probability for the offspring, and the actual number of each kind of offspring you would expect.

_____ Genotype of the rough, black parent?

_____ Genotype of the rough, white parent?



Genotypes	Phenotypes

_____ What is the probability of getting rough, black offspring?

_____ What is the probability of getting rough, white offspring?

_____ What is the probability of getting smooth, black offspring?

_____ What is the probability of getting smooth, white offspring?

_____ Of the 80 offspring that were produced, we might have expected how many of them to be rough and black?

_____ Of the 80 offspring that were produced, we might have expected how many of them to be rough and white?

_____ Of the 80 offspring that were produced, we might have expected how many of them to be smooth and black?

_____ Of the 80 offspring that were produced, we might have expected how many of them to be smooth and white?

10. Two rough black guinea pigs were bred together have two offspring. One of them is rough white and the other is smooth black. What are the genotypes of these parents?

Parent 1 _____

Parent 2 _____