Colegio Metropolitano
Sixth grade ENCINO PINO SAUCE
Science
Miss Alisson Coronado

Quiz 2

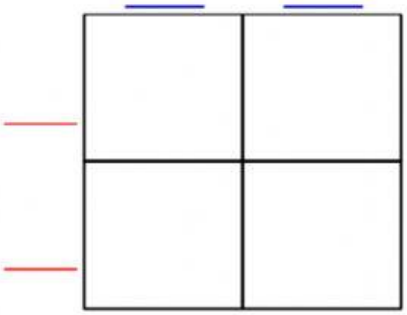
Contents to evaluate: Punnett squares
General instructions: Read the problems below. Answer the questions for each Punnett square correctly.

1. In dogs, the gene for fur color has two alleles. The dominant allele (F) codes for grey fur and the recessive allele (f) codes for black fur.

a. The female dog is heterozygous. The male dog is homozygous recessive.

What is the percentage of black puppies? _____

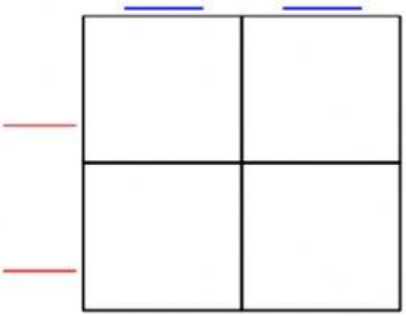
Possible Genotypes: FF: _____ Ff: _____ ff: _____



Each square represents a 25%

b. The female dog has black fur. The male dog has black fur. Figure out the phenotypes and genotypes of their possible puppies by using a Punnett Square.

Possible Genotypes: FF: _____ Ff: _____ ff: _____



Each square represents a 25%

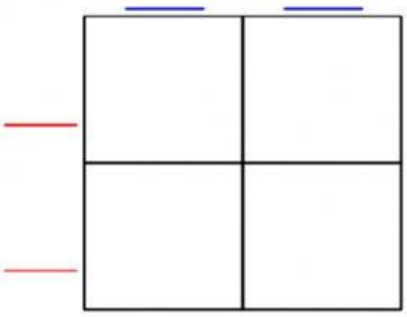
Phenotypes:

Black fur: _____ Grey fur: _____

LIVEWORKSHEETS

c. The female dog is heterozygous. The male dog is heterozygous. Figure out the phenotypes and genotypes of their possible puppies by using a Punnett Square.

Possible Genotypes: FF: _____ Ff: _____ ff: _____



Each square represents a 25%

Phenotypes:

Black fur: _____ Grey fur: _____

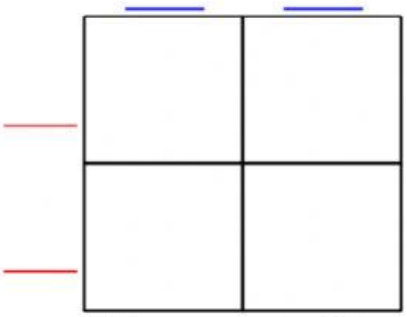


Having a widow's peak like Wentworth Miller is dominant.

Not having a widow's peak, like Rihanna, is recessive.



2. If Wentworth Miller is Aa, and he and Rihanna had children, how many children could have widow's peak? _____



Each square represents a 25%

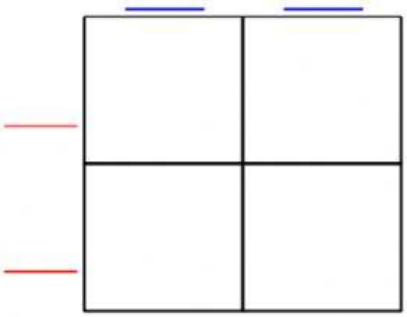
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3. Look at the phenotypes of Beyonce and Jay Z. If these two had children, could they have children with a widow's peak? Why or why not?





4. Two heterozygous red flowers (white flowers are recessive) are crossed.

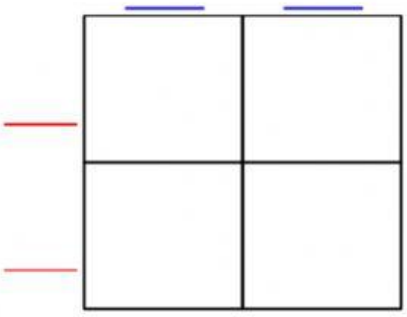


Each square represents a 25%

Percentage of white flowers: _____

5. In rabbits, black fur (B) is dominant over white fur. Show the cross of a heterozygous male with a homozygous white female. Complete a Punnett Square to support your answer.
   a. What percentage of their offspring will have black fur? _____%

   b. What percentage of their offspring will have white fur? _____%



Each square represents a 25%

LIVEWORKSHEETS