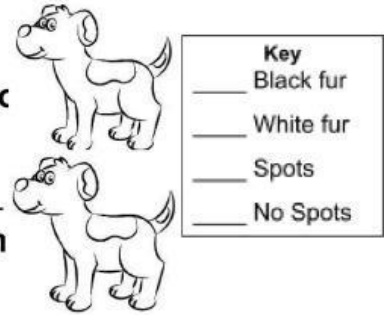


Dihybrid Cross Practice: Color the Pups!

In dogs suppose that black fur is dominant to white fur and that spots are dominant over no spots.

- The female dog is white and spotted that had a father with no spots and black fur
 - Genotype: _____
 - Possible gametes: _____
- The male dog is black and no spots that had a white furred mother with no spots
 - Genotype: _____
 - Possible gametes: _____



Complete the dihybrid cross below with the information you determined above and then color in the images based on the genotypes of the offspring:

♂				
♀				
♀				
♀				

Analysis:

1. What is the probability of getting a puppy that is heterozygous for fur and spots? _____/16 = _____%
2. What is the probability of getting a puppy that is heterozygous for black fur and homozygous recessive for spots? _____/16 = _____%
3. What is the probability of getting a puppy that is homozygous recessive for white fur and heterozygous for spots? _____/16 = _____%
4. What is the probability of getting a puppy that is homozygous recessive for both traits? _____/16 = _____%