

Suppose a white straight haired guinea pig mates with a brown, curly haired animal. All five babies in their first litter have brown fur. Three of the offspring have curly hair and two have straight hair. The parents then have a second litter that consists of six more brown offspring. The second litter has two curly haired babies and four straight haired babies.

1. Assuming curly is dominant to straight, what are the genotypes of the parents?

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| Mother | Father |
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1. Create a dihybrid cross with the parents that would apply to both litters.
2. What is the probability of getting a guinea pig offspring with straight hair?
3. What is the probability of getting a guinea pig offspring with brown fur and curly hair?
4. What is the probability of getting a guinea pig offspring with white hair and straight hair?
5. What is the probability of getting a guinea pig offspring with brown fur and straight hair?