

GENETICS

2nd HW (Due Date: 24 MARCH 2015)

1. Explain Mendel's laws and use the examples if necessary
2. In humans, brown eyes (B) are dominant over blue (b)*. A brown-eyed man marries a blue-eyed woman and they have three children, two of whom are brown-eyed and one of whom is blue-eyed. Draw the Punnett square that illustrates this marriage. What is the man's genotype? What are the genotypes of the children?
3. In poultry black plumage 'B' is dominant over red 'b' and crested head 'C' is dominant over plain 'c'. A red crested male bird is mated to a black plain female. They produced offspring half of which were black crested and half red crested. What was the genotype of the parents?

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