**Using Punnett Squares to Predict Trait Expression**

* Can I identify examples of inherited traits?

Use a Punnett Square to solve the following:

1. A blue eyed man (bb) and a brown eyes woman (Bb) have four children. What is the most likely eye colour of their children?
2. A type O man (ii) and a type A women (Ai) have a child. What blood type could the child have and the probability (%) is this blood type.
3. A woman has a baby with type AB blood (AB). She has type A (Ai) blood. Who is the father? David with type O (ii), John with type B (Bi), or Josh with type A (Ai). How do you know?
4. There are two races on the planet of AZURA. One race, the BLUEDARIAN, has blue skin due to a dominant gene (B). The other race, the REDARIAN, has red skin due to the dominant gene (R). Is it possible to have either color skin even though they carry a recessive gene (p). (Having gene, p, results in a hairier body). When the two races interbreed, a purple colored offspring will result due to the fact that the genes B and R are co-dominant.
5. Find out the possible offspring combinations if a BLUEDARIAN (Bp) is mated to a REDARIAN (RR). What colors would they be? (What is the probability of each being produced)

1. Cross a heterozygous mixed breed (BR) with a pure bred BLUEDARIAN (BB). What colors would they be? (What is the probability of each being produced)