

Punnett Square Practice

Name: _____

Directions: Use the scenarios given below to complete the Punnett squares and determine the potential offspring for each set of parents. Use the lines on the right hand side to list the genotype and phenotype for each possible child.

1. A brown-eyed homozygous dominant female (BB) has a baby with a brown-eyed heterozygous male (Bb). B = brown, b = blue

Genotype

Phenotype

Possibility 1: _____

Possibility 2: _____

Possibility 3: _____

Possibility 4: _____

2. Freckles (F) are dominant to no freckles (f). A heterozygous mother (_____) and heterozygous father (_____) have a baby. F = freckles, f = no freckles

Genotype

Phenotype

Possibility 1: _____

Possibility 2: _____

Possibility 3: _____

Possibility 4: _____

3. The ability to roll your tongue (R) is a dominant trait. A woman who cannot roll her tongue (_____) has a baby with a man who is homozygous dominant for this trait (_____). R = can roll tongue, r = cannot roll tongue

Genotype

Phenotype

Possibility 1: _____

Possibility 2: _____

Possibility 3: _____

Possibility 4: _____