



## THE BLOOD CONNECTION QUESTIONNAIRE

Answer the following questions that correspond with *The Blood Connection* game.

### Patient-Donor Blood Connection

In the table below, fill in each patient's phenotype, possible genotype, and potential blood donations they can receive based on their blood type.

Patient	Phenotype	Genotype	Possible Blood Matches
Olive Mango			
Domino Pickleman			
Hamile Beets			

### Punnett Square Parental Matching

1. If Zarrria is homozygous for type B, using the Punnett square below, show at least three combinations of genotypes her parents could be.

Parents Genotypes:

\_\_\_\_\_ X \_\_\_\_\_


Parents Genotypes:

\_\_\_\_\_ X \_\_\_\_\_


Parents Genotypes:

\_\_\_\_\_ X \_\_\_\_\_


2. If Zarrria is heterozygous for type A, using the Punnett square below, show at least three combinations of genotypes her parents could be.

Parents Genotypes:

\_\_\_\_\_ X \_\_\_\_\_


Parents Genotypes:

\_\_\_\_\_ X \_\_\_\_\_


Parents Genotypes:

\_\_\_\_\_ X \_\_\_\_\_


3. If Zarría is blood type AB, using the Punnett square below, show at least three combinations of genotypes her parents could be.

Parents Genotypes:

\_\_\_\_\_ X \_\_\_\_\_


Parents Genotypes:

\_\_\_\_\_ X \_\_\_\_\_


Parents Genotypes:

\_\_\_\_\_ X \_\_\_\_\_
