

The Blood Connection

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

# Patient-Donor Blood Connection

In the table below, fill in each patient’s phenotype, possible genotype, and what 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. Zarria is homozygous for type B. Using the Punnett square below, show at least three combinations of genotypes her parents could be.

#####  Parents’ Genotypes: Parents’ Genotypes: Parents’ Genotypes:

#####

#####  \_\_\_\_\_\_\_\_\_\_X\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_X\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_X\_\_\_\_\_\_\_\_\_\_\_



1. Zarria is heterozygous for type A. Using the Punnett square below, show at least three combinations of genotypes her parents could be.

#####  Parents’ Genotypes: Parents’ Genotypes: Parents’ Genotypes:

#####

#####  \_\_\_\_\_\_\_\_\_\_X\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_X\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_X\_\_\_\_\_\_\_\_\_\_\_



1. Zarria is blood type AB. Using the Punnett square below, show at least three combinations of genotypes her parents could be.

#####  Parents’ Genotypes: Parents’ Genotypes: Parents’ Genotypes:

#####

#####  \_\_\_\_\_\_\_\_\_\_X\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_X\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_X\_\_\_\_\_\_\_\_\_\_\_

