

The Blood Connection

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**

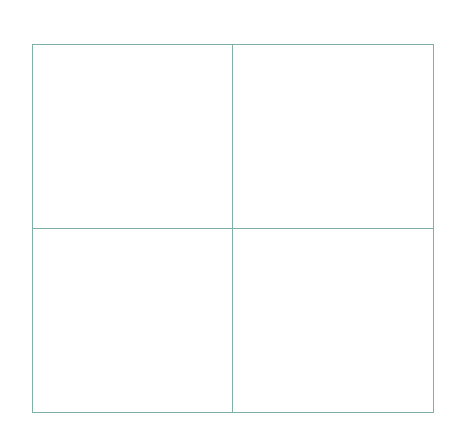
1. If Zarria is homozygous for type B, using the Punnett square below, show at least three combinations of genotypes her parents could be?

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

##### 

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

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

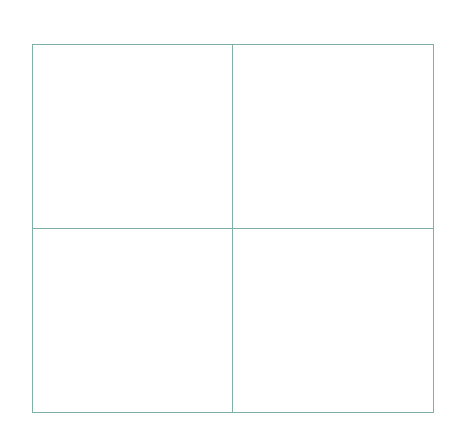
##### Parents Genotypes: Parents Genotypes: Parents Genotypes:

##### 

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

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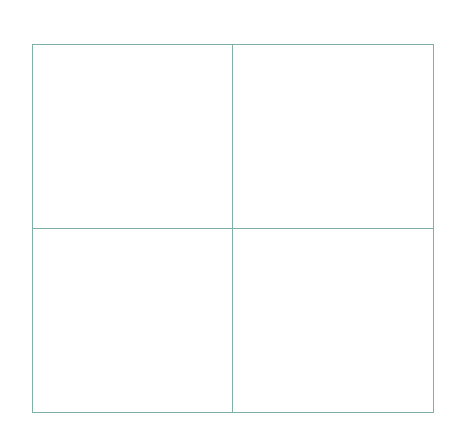
1. If Zarria is blood type AB, using the Punnett square below, show at least three combinations of genotypes her parents could be?

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

##### 

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

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