Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_\_\_\_\_

ABO BLOOD TYPES

When analyzing blood types in the AB0 system, the alleles for type A and type B are codominant. The allele for type 0 is recessive. Using the Punnett squares below, determine the expected frequencies of the blood types of offspring in the following cases:

1. Type 0 father x type 0 mother

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|  |  |  |
|  |  |  |

……%0 ……%A ……%B ……%AB

2. Type 0 father x type AB mother

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| --- | --- | --- |
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|  |  |  |
|  |  |  |

……%0 ……%A ……%B ……%AB

3. Heterozygous type A father x heterozygous type B mother

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| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

……%0 ……%A ……%B ……%AB

4. Homozygous type A father x homozygous type B mother

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| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

……%0 ……%A ……%B ……%AB

5. Type AB father x type AB mother

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

……%0 ……%A ……%B ……%AB

Explain these words:

* Homozygous, heterozygous, codominant, offspring