

1. Father is type O, Mother is type O

\_\_\_\_\_% O

\_\_\_\_\_% A

\_\_\_\_\_% B

\_\_\_\_\_% AB

2. Father is type A homozygous, Mother is type B homozygous

\_\_\_\_\_% O

\_\_\_\_\_% A

\_\_\_\_\_% B

\_\_\_\_\_% AB

3. Father is type A heterozygous, Mother is type B heterozygous

\_\_\_\_\_% O

\_\_\_\_\_% A

\_\_\_\_\_% B

\_\_\_\_\_% AB

4. Father is type O, Mother is type AB

\_\_\_\_\_% O

\_\_\_\_\_% A

\_\_\_\_\_% B

\_\_\_\_\_% AB

**Blood Type and Inheritance**

In blood typing, the gene for type A and the gene for type B are **codominant**. The gene for type O is recessive. Using the Punnett squares, determine the possible blood types of the offspring when:

Cut along dotted line

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\_\_\_\_\_% AB

2. Father is type A homozygous, Mother is type B homozygous

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\_\_\_\_\_% B

\_\_\_\_\_% AB

3. Father is type A heterozygous, Mother is type B heterozygous

\_\_\_\_\_% O

\_\_\_\_\_% A

\_\_\_\_\_% B

\_\_\_\_\_% AB

4. Father is type O, Mother is type AB

\_\_\_\_\_% O

\_\_\_\_\_% A

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