

Name _____

Blood Type Baby Mystery--“Using Genetics to Help Solve Mysteries”

Adapted from a worksheet by Merrill Publishing Co., 1991

Problem: Four newborn babies in the delivery room of the hospital at the same time were mixed up by the person who typed the wristbands. The blood types of the four babies were known to be AB, O, A, and B. How did the doctors eventually find out which baby belongs to which set of parents?

Given: Parents #1 had blood types O and AB
Parents #2 had blood types AB and B
Parents #3 both had blood type O
Parents #4 had blood types O and A

Use Punnett squares to determine the possible genotypes of the offspring.

Parents # 1

Parents # 2 Homoygous B

Parents # 2 Heterozygous B

Parents # 3

Parents # 4 Homozygous A

Parents # 4 Heterozygous A

Possible Blood Types for Babies

1. Parents # 1 _____
2. Parents # 2 _____
3. Parents # 3 _____
4. Parents # 4 _____

Conclusion:

- A. Baby with type AB blood belongs to Parents # _____.
- B. Baby with type B blood belongs to Parents # _____.
- C. Baby with type A blood belongs to Parents # _____.
- D. Baby with type O blood belongs to Parents # _____.