

The Situation

Where in the World is Mrs. Zeroni?

Samples of blood can give us a lot of information about people. Information is coded from blood samples so that comparisons can be made and family relationships can be established.

Hector Zeroni is looking for his mother. She accidentally left him behind one day. Hector has decided to hire investigators/detectives to locate his mother and bring her to him.

Detectives don't like to make mistakes. Right now they have five women claiming to be Hector's mother. It seems news has gotten around that Hector, and his partner Stanley Yelnats, is worth a lot of money, now everyone wants to be his mother. How will the detectives prove the identity of Hector's mother to themselves, the media, and most important, Hector.

The detectives have coded the blood samples using color counters in five paper sacks. One of these sacks contains an exact match to Hector's blood. Pulling one tile out at a time, recording the results, then replacing the counter in the sack and shaking the sack before drawing the next counter can only reveal the contents of the sack.

Your group needs to come up with a plan and gather data to find the answer to this question, **Where in the world is Mrs. Zeroni?** Some things your group needs to decide are:

- The way you will go about gathering the data.
- The amount of data you will gather.
- The way you organize your data.
- Ways to present your results to others.