**Paternity Test: Blood typing lab**

**Background:**

Knowledge of the genetics of human blood groups can be used to determine paternity. In this investigation, you will determine the blood groups of the mother (June), her natural daughter (Andrea) and three possible fathers. Use the data to decide who should pay June child support.

**Data:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Mother (June) | Child (Andrea) | Father 1 | Father 2 | Father 3 |
| Anti A |  |  |  |  |  |
| Anti B |  |  |  |  |  |
| Anti D (Rh) |  |  |  |  |  |
| Blood Type |  |  |  |  |  |

**Post Lab Questions:**

1. Based on your results for Andrea’s blood type, what allele(s) did she receive from her mother June?
2. What allele(s) must have come from her father?
3. Which of the possible fathers, if any, is genetically a good candidate for having to pay child support for Andrea? Why did you come to this conclusion?
4. After graduating high school, Amanda decides to join the Navy. She knows that her father’s blood type is A and her mother is O. Amanda’s blood is typed as part of her physical exam and she is type B. Amanda returns home and asks her parents if she is adopted. Why would she ask this?