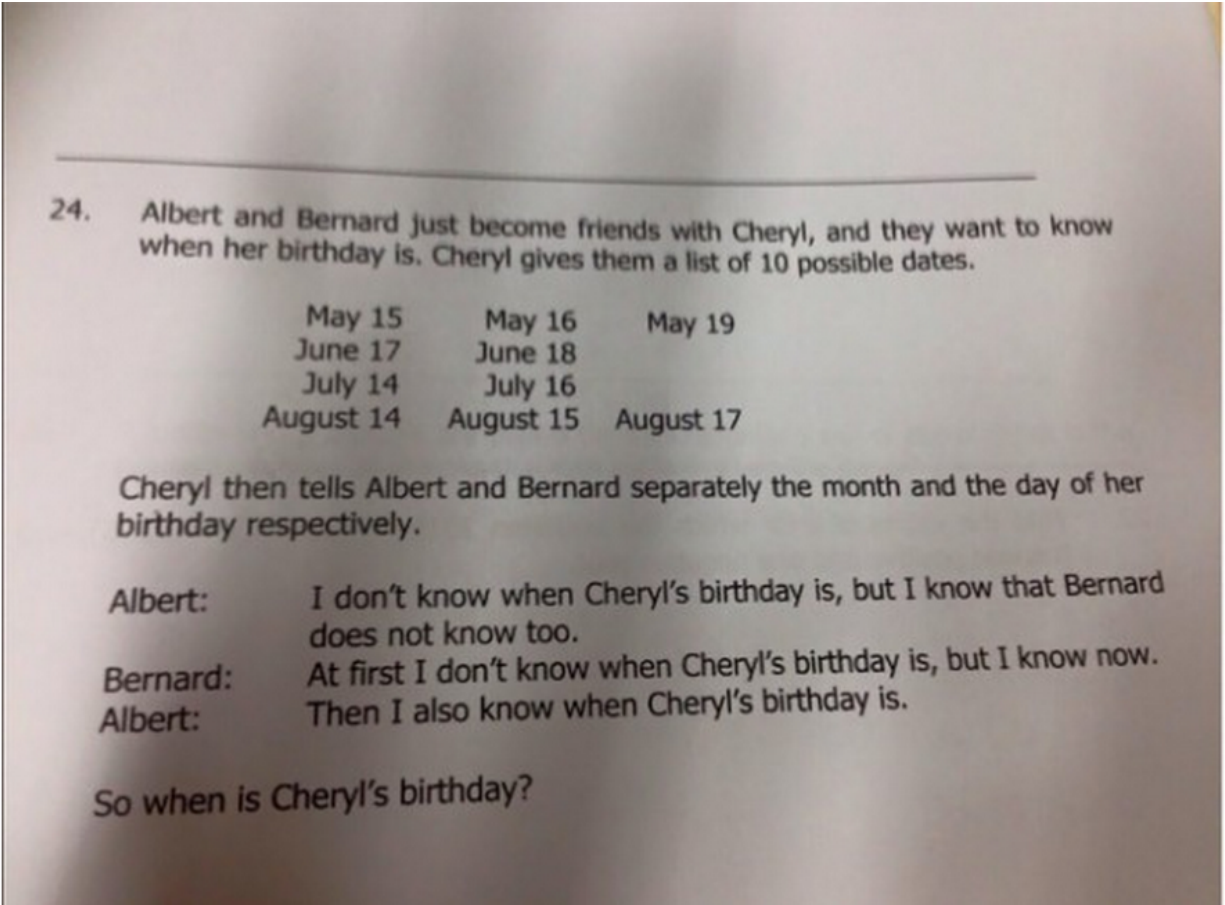


Cheryl's Birthday
Solution from different angles

The Question:



1. Logic:
 - a. Albert is satisfied that Bernard cannot find out Cheryl's Birthday with Day-of-Month only because the Month that Cheryl told him was not May and June. Albert simply expresses his satisfaction "Bernard does not know too" in his conversation.
 - b. Bernard figures it out from Albert's satisfaction that he was not worried about unique presence of 19th and 18th so he focuses on the months of July and August only. He finds out that the date Cheryl told him was only in July. So he figures out Cheryl's Birthday. He expresses that satisfaction.
 - c. Albert figures out from Bernard's satisfaction that 16 was the only day unique in both July and August so he finds out that July 16 was Cheryl's Birthday.
2. Mathematics/Group Theory

- a. Number of sets for Albert {May,3}, {June,2}, {July,2}, {August,3}. Bernard is okay that Albert has more than one set with each month.
 - b. Number of sets for Bernard: {14,2}, {15,2}, {16,2}, {17,2}, {18,1}, {19,1}. Albert says that he is not worried about 18th and 19th because he knows May and June were not Cheryl's B'day months.
 - c. With this revelation, Bernard recalculates his sets without May and June, and gets {14,2}, {15,1}, {16,1}, {17,1}. Bernard announces his success in finding out Cheryl's Birthday.
 - d. Albert recalculates Bernard's sets with his known month and comes out with July 16.
3. Computer Science:
- a. SELECT UNIQUE DAY FROM BDAYTABLE..... result 19(1), 18(1)
 - b. SELECT UNIQUE MONTH FROM BDAYTABLE WHERE MONTH IS NOT "May", "June" and DAY = "16" "July"
4. Common Sense:
- a. If you eliminate 50% out of four combinations (months) then rest of the two might be easy especially when other party has been given some clues too.