**Puzzle No. 6, Allergy Season:**

Five friends (Allegra, Ben, Clara, Flora, and Zach) are each allergic to something different: pollen, shellfish, bee stings, cats, or nuts.

Allegra has a food allergy

Ben can play with his kitten for hours without issue (or medicine).

Clara’s allergy is not related to animals.

Flora has seasonal allergies.

Can you figure out who is allergic to what?

**Solution:-**

**Starting with Probabilities & Elimination:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Pollen** | **Shellfish** | **Bee Stings** | **Cats** | **Nuts** |
| **Allegra** | 0 | 1 | 0 | 0 | 0 |
| **Ben** | 0 | 0 | 1 | 0 | 0 |
| **Clara** | 0 | 0 | 0 | 0 | 1 |
| **Flora** | 1 | 0 | 0 | 0 | 0 |
| **Zach** | 0 | 0 | 0 | 1 | 0 |

* Allegra has a food Allergy. This means we have two probabilities we should think of, which are Shellfish and Nuts. Filling the table with 1 for both then later we will Eliminate the other inappropriate probability
* Eliminating Cats for Ben, since he can play with them without issue. (Put 0 in the table)
* Eliminating Shellfish, Bee stings, and Cats for Clara
* Clara probabilities are **Pollen and Nuts**
* Since Flora has seasonal Allergies, this means its Pollen .. which let us know we’re left with Nuts for Clara.
* Eliminate Nuts Allergy for Allegra (Delete the zero we’ve put earlier), Allegra has Shellfish allergy.
* Now for Cats Allergy, we are left with Zach
* Ben is left with Bee Stings