Einstein Riddle Homework Assignment

Unfortunately, my Virtual Machine wouldn’t run, despite all my efforts to make it work.

That’s why I decided to solve this riddle manually.

# Full Table Solution:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **First** | **Second** | **Third** | **Fourth** | **Fifth** |
| Yellow | Blue | Red | Green | White |
| Water | tea | Milk | Coffee | Beer |
| Norwegian | Dane | Brit | German | Swede |
| Dunhill | Blends | Pall Mall | Prince | Blue Master |
| Cats | Horses | Birds | **FISH** | Dogs |

# Step 1: Make a grid

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| House Number | 1 | 2 | 3 | 4 | 5 |
| Colour |  |  |  |  |  |
| Nationality |  |  |  |  |  |
| Smoke |  |  |  |  |  |
| Drink |  |  |  |  |  |
| Pet |  |  |  |  |  |

# Step 2: Fill in the Easy Clues

* The Norwegian lives in the first house
* The Norwegian lives next to the blue house
* The man living in the center house drinks milk
* The Green house is next to, and to the left of, the white house

& The Owner of the Green house drinks Coffee

(We are looking for a spot with no beverage and no color itself and to the right which only applies to 4)

* 5 is the White House
* The brit lives in the red house (only 3 has no color and nationality assigned to yet)
* The last color is Yellow which is house number 1
* The owner of the Yellow House smokes Dunhill
* The man who keeps horses lives next to the man who smokes Dunhill
* Step 1: make a grid

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| House Number | 1 | 2 | 3 | 4 | 5 |
| Colour | Yellow | Blue | Red | Green | White |
| Nationality | Norwegian |  | Brit |  |  |
| Smoke | Dunhill |  |  |  |  |
| Drink |  |  | Milk | Coffee |  |
| Pet |  | Horses |  |  |  |

# Step 3: Make a list of all Values that are left and their possible values

|  |  |
| --- | --- |
| Nationality: | Swede, Dane, German |
| Smoke | Pall Mall, Blue Master, Blends, Prince |
| Drink | Tea, Beer, Water |
| Pet: | Fish, Bird, Cat, Dog |

# Step 4: Write down all possibilities for the last boxes (according to the clues)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| House Number | 1 | 2 | 3 | 4 | 5 |
| Colour | Yellow | Blue | Red | Green | White |
| Nationality | Norwegian | D|G | Brit | S|G | S|D|G |
| Smoke | Dunhill | P|BM|B | PM|B | PM|P|B | PM|P|BM |
| Drink | W | T|B|W | Milk | Coffee | T|B|W |
| Pet | C|F | Horses | C|F|B | C|D|F|B | C|D|F|B |

* Note that for the drink the only option for house 1 is Water
* With this knowledge we can use the next clue: The man who smokes Blends has a neighbor who drinks water
* This again tells us that the third house smokes Pall Mall
* Which in turn tells us that the fourth house smokes Prince and Blue Master is the only one left for house 5

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| House Number | 1 | 2 | 3 | 4 | 5 |
| Colour | Yellow | Blue | Red | Green | White |
| Nationality | Norwegian | D|G | Brit | S|G | S|D|G |
| Smoke | Dunhill | **Blends** | **Pall Mall** | **Prince** | **Blue Master** |
| Drink | Water | T|B| | Milk | Coffee | T|B| |
| Pet | C|F | Horses | C|F|B | C|D|F|B | C|D|F|B |

* The next clue reads: The man who smokes Blue Master drinks Beer
* Thus we can fill out the drink column and conclude that house 5 drinks beer and house 2 drinks tea

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| House Number | 1 | 2 | 3 | 4 | 5 |
| Colour | Yellow | Blue | Red | Green | White |
| Nationality | Norwegian | D|G | Brit | S|G | S|D|G |
| Smoke | Dunhill | Blends | Pall Mall | Prince | Blue Master |
| Drink | Water | **Tea** | Milk | Coffee | **Beer** |
| Pet | C|F | Horses | C|F|B | C|D|F|B | C|D|F|B |

* The dane drinks tea. That’s house nr.2
* The German smokes Prince, that’s house no. 4
* This leaves house n.5 with the Swede

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| House Number | 1 | 2 | 3 | 4 | 5 |
| Colour | Yellow | Blue | Red | Green | White |
| Nationality | Norwegian | **Dane** | Brit | **German** | **Swede** |
| Smoke | Dunhill | Blends | Pall Mall | Prince | Blue Master |
| Drink | Water | Tea | Milk | Coffee | Beer |
| Pet | C|F | Horses | C|F|B | C|D|F|B | C|D|F|B |

* The swede keeps dogs as pets
* The person who smokes Pall Mall rears birds
* The man who smokes Blends lives next to the one who keeps cats

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| House Number | 1 | 2 | 3 | 4 | 5 |
| Colour | Yellow | Blue | Red | Green | White |
| Nationality | Norwegian | Dane | Brit | German | Swede |
| Smoke | Dunhill | Blends | Pall Mall | Prince | Blue Master |
| Drink | Water | Tea | Milk | Coffee | Beer |
| Pet | **Cats** | Horses | **Birds** | F | **Dogs** |

As we can see there’s only one spot left for the fish. That’s why we can conclude that the German keeps a fish