

**1) Five friends have their gardens next to one another, where they grow three kinds of crops: fruits (apple, pear, nut, cherry), vegetables (carrot, parsley, gourd, onion) and flowers (aster, rose, tulip, lily).**

- 1. They grow 12 different varieties.**
- 2. Everybody grows exactly 4 different varieties**
- 3. Each variety is at least in one garden.**
- 4. Only one variety is in 4 gardens.**
- 5. Only in one garden are all 3 kinds of crops.**
- 6. Only in one garden are all 4 varieties of one kind of crops.**
- 7. Pear is only in the two border gardens.**
- 8. Paul's garden is in the middle with no lily.**
- 9. Aster grower doesn't grow vegetables.**
- 10. Rose growers don't grow parsley.**
- 11. Nuts grower has also gourd and parsley.**
- 12. In the first garden are apples and cherries.**
- 13. Only in two gardens are cherries.**
- 14. Sam has onions and cherries.**
- 15. Luke grows exactly two kinds of fruit.**
- 16. Tulip is only in two gardens.**
- 17. Apple is in a single garden.**
- 18. Only in one garden next to Zick's is parsley.**
- 19. Sam's garden is not on the border.**
- 20. Hank grows neither vegetables nor asters.**
- 21. Paul has exactly three kinds of vegetable.**

**Sol:**

Hank: pear apple cherry rose  
Sam: cherry onion rose tulip  
Paul: carrot gourd onion rose  
Zick: aster rose tulip lily  
Luke: pear nut gourd parsley

**2) There are 5 ships in a port:**

- 1. The Greek ship leaves at six and carries coffee.**
- 2. The Ship in the middle has a black chimney.**
- 3. The English ship leaves at nine.**
- 4. The French ship with blue chimney is to the left of a ship that carries coffee.**

5. To the right of the ship carrying cocoa is a ship going to Marseille.
6. The Brazilian ship is heading for Manila.
7. Next to the ship carrying rice is a ship with a green chimney.
8. A ship going to Genoa leaves at five.
9. The Spanish ship leaves at seven and is to the right of the ship going to Marseille.
10. The ship with a red chimney goes to Hamburg.
11. Next to the ship leaving at seven is a ship with a white chimney.
12. The ship on the border carries corn.
13. The ship with a black chimney leaves at eight.
14. The ship carrying corn is anchored next to the ship carrying rice.
15. The ship to Hamburg leaves at six.

**Which ship goes to Port Said? Which ship carries tea?**

**Sol:**

**The Spanish ship goes to Port Said and the French ship carries tea. However, tea can be carried by the Brazilian ship, too.**

**explanation:**

**If you understood position 'to the right' to mean anywhere on the right side from the given point (not only right next to).**

|           |      |               |       |           |
|-----------|------|---------------|-------|-----------|
| French    | 5:00 | tea           | blue  | Genoa     |
| Greek     | 6:00 | <u>coffee</u> | red   | Hamburg   |
| Brazilian | 8:00 | cocoa         | black | Manila    |
| English   | 9:00 | rice          | white | Marseille |
| Spanish   | 7:00 | corn          | green | Port Said |

3)

**5 people are standing in a queue for plane tickets in Germany; each one has a name, an age, a favourite TV program, where they live, a hairstyle and a destination.**

**Names:** Bob, Keeley, Rachael, Eilish and Amy

**TV programs:** The Simpsons, Coronation Street ("Corrie"), Eastenders, Desperate Housewives and Neighbours.

**Destinations:** France, Australia, England, Africa and Italy

**Ages:** 14, 21, 46, 52 and 81

**Hairstyle:** Afro, long, straight, curly and bald

**Where they live: A town, a city, a village, a farm and a youth hostel**

- 1. The person in the middle watches Desperate Housewives.**
- 2. Bob is the first in the queue**
- 3. The person who watches the Simpsons is next to the person who lives in a youth hostel**
- 4. The person going to Africa is behind Rachael**
- 5. The person who lives in a village is 52**
- 6. The person who is going to Australia has straight hair**
- 7. The person travelling to Africa watches Desperate Housewives**
- 8. The 14-year-old is at the end of the queue**
- 9. Amy watches Eastenders**
- 10. The person heading to Italy has long hair**
- 11. Keeley lives in a village**
- 12. The 46-year-old is bald**
- 13. The fourth in the queue is going to England**
- 14. The people who watch Desperate Housewives and Neighbours are standing next to each other**
- 15. The person who watches Coronation Street stands next to the person with an afro**
- 16. A person next to Rachael has an afro**
- 17. The 21-year-old lives in a youth hostel**
- 18. The person who watches Corrie has long hair**
- 19. The 81-year-old lives on a farm**
- 20. The person who is travelling to France lives in a town**
- 21. Eilish is not next to the person with straight hair.**

Sol:

| Name                   | Bob          | Rachael           | Eilish               | Keeley     | Amy        |
|------------------------|--------------|-------------------|----------------------|------------|------------|
| Favourite TV programme | The Simpsons | Coronation Street | Desperate Housewives | Neighbours | Eastenders |
| Destination            | France       | Italy             | Africa               | England    | Australia  |
| Age                    | 46           | 21                | 81                   | 52         | 14         |
| Where they live        | Town         | Youth Hostel      | Farm                 | Village    | City       |
| Hairstyle              | Bald         | Long              | Afro                 | Curly      | Straight   |

4)

**There are five people - Holly, Cameron, Julieanne, Alex and Jackie.**

**Each one stole a special cookie of their favourite brand which was kept in a jar.**

**Each person ate it in a particular place and drank their flavoured milk with it.**

- \* Jackie is next to the person who eats on the lounge.
- \* Arnotts brand cookies are kept in a round jar.
- \* The person beside Cameron eats cookies at a table.
- \* The person who eats Oreos eats in the closet.
- \* Julieanne likes Paradise brand cookies
- \* The person who drinks banana milk is in the middle and owns a tall jar
- \* The first person likes vanilla milk.
- \* Holly is the person on the far right
- \* The person who eats in the bedroom drinks strawberry milk.
- \* The person who owns the tall jar is next to the person who owns square jar
- \* Cameron drinks caramel milk.
- \* The person who likes the Dick Smith brand is next to the person who likes the Coles brand
- \* The person who likes the No Frills brand is next to the person who owns a round jar
- \* The person who stole the 100s and 1000s cookies is next to the person who owns the brass jar.
- \* The second person from the right eats No Frills brand and is next to the person who owns a round jar
- \* The first person on the left stole the choc chip cookies.
- \* The person who eats Dick Smith brand is next to the person who eats Paradise brand
- \* The second from the left has a brass jar
- \* Julieanne is to the right of the person who drinks strawberry milk
- \* The person who drinks chocolate milk does it at the table
- \* The Paradise brand cookies are eaten in the kitchen.
- \* The person who eats Tiny Teddies doesn't keep them in a round jar
- \* The Coles brand cookies are kept in a mini sized jar

**A Ginger Cookie was also stolen. Who stole it?**

**Sol: Holly**

**Explanation:**

|                   |           |              |                |           |           |
|-------------------|-----------|--------------|----------------|-----------|-----------|
| <b>Person</b>     | Alex      | Jackie       | Julieanne      | Cameron   | Holly     |
| <b>Flavor</b>     | Vanilla   | Strawberry   | Banana         | Caramel   | Chocolate |
| <b>Cookie Jar</b> | Mini      | Brass        | Tall           | Square    | Round     |
| <b>Brand</b>      | Coles     | Dick Smith   | Paradise       | No Frills | Arnotts   |
| <b>Cookie</b>     | Choc chip | Tiny Teddies | 100s and 1000s | Oreos     | Ginger    |
| <b>Place</b>      | Lounge    | Bedroom      | Kitchen        | Closet    | Table     |

**5)**

***Eight married couples meet to lend one another some books. Couples have the same surname, employment and car. Each couple has a favourite colour. Furthermore we know the following facts:***

- 1. Daniella Black and her husband work as Shop-Assistants***
- 2. The book "The Seadog" was brought by a couple who drive a Fiat and love the colour red.***
- 3. Owen and his wife Victoria like the colour brown.***
- 4. Stan Horricks and his wife Hannah like the colour white.***
- 5. Jenny Smith and her husband work as Warehouse Managers and they drive a Wartburg.***
- 6. Monica and her husband Alexander borrowed the book "Grandfather Joseph".***
- 7. Mathew and his wife like the colour pink and brought the book "Mulatka Gabriela".***
- 8. Irene and her husband Oto work as Accountants.***
- 9. The book "We Were Five" was borrowed by a couple driving a Trabant.***
- 10. The Cermaks are both Ticket-Collectors who brought the book "Shed Stroat".***
- 11. Mr and Mrs Kuril are both Doctors who borrowed the book "Slovakko Judge".***
- 12. Paul and his wife like the colour green.***
- 13. Veronica Dvorak and her husband like the colour blue.***
- 14. Rick and his wife brought the book "Slovakko Judge" and they drive a Ziguli.***
- 15. One couple brought the book "Dame Commissar" and borrowed the book "Mulatka Gabriela".***
- 16. The couple who drive a Dacia, love the colour violet.***
- 17. The couple who work as Teachers borrowed the book "Dame Commissar".***
- 18. The couple who work as Agriculturalists drive a Moskvic.***
- 19. Pamela and her husband drive a Renault and brought the book "Grandfather Joseph".***
- 20. Pamela and her husband borrowed the book that Mr and Mrs Zajac brought.***
- 21. Robert and his wife like the colour yellow and borrowed the book "The Modern Comedy".***
- 22. Mr and Mrs Swain work as Shoppers.***
- 23. "The Modern Comedy" was brought by a couple driving a Skoda.***

***Who likes Violet? And can you find out everything about everyone from this?***

***Sol:***

**Monica and Alexander Cermak like Violet.**

**Explanation:**

| <b><i>Names</i></b>            | <b><i>Occupation</i></b>  | <b><i>Car</i></b> | <b><i>Colour</i></b> | <b><i>Brought</i></b> | <b><i>Borrowed</i></b> |
|--------------------------------|---------------------------|-------------------|----------------------|-----------------------|------------------------|
| Daniella and Mathew Black      | Shop-Assistants           | Trabant           | pink                 | "Mulatka Gabriela"    | "We Were Five"         |
| <u>Victoria</u> and Owen Kuril | Doctors                   | Skoda             | <u>brown</u>         | "The Modern Comedy"   | "Slovakko Judge"       |
| Hannah and Stan Horricks       | Agriculturalists          | Moskvic           | white                | "Dame Commissar"      | "Mulatka Gabriela"     |
| Jenny and <u>Robert Smith</u>  | <u>Warehouse Managers</u> | Wartburg          | yellow               | "We Were Five"        | "The Modern Comedy"    |
| Monica and Alexander Cermak    | Ticket-Collectors         | Dacia             | violet               | "Shed Stoad"          | "Grandfather Joseph"   |
| Irene and Oto Zajac            | Accountants               | Fiat              | red                  | "The Seadog"          | "Shed Stoad"           |
| Pamela and Paul Swain          | Shoppers                  | Renault           | green                | "Grandfather Joseph"  | "The Seadog"           |
| Veronica and Rick Dvorak       | Teachers                  | Ziguli            | blue                 | "Slovakko Judge"      | "Dame Commissar"       |

6)

**Alex, Betty, Carol, Dan, Earl, Fay, George and Harry are eight employees of an organization**

**They work in three departments: Personnel, Administration and Marketing with not more than three of them in any department.**

**Each of them has a different choice of sports from Football, Cricket, Volleyball, Badminton, Lawn Tennis, Basketball, Hockey and Table Tennis not necessarily in the same order.**

**Dan works in Administration and does not like either Football or Cricket.**

**Fay works in Personnel with only Alex who likes Table Tennis.**

**Earl and Harry do not work in the same department as Dan.**

**Carol likes and does not work in Marketing.**

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**George does not work in Administration and does not like either Cricket or Badminton.**

**One of those who work in Administration likes Football.**

**The one who likes Volleyball works in Personnel.**

**None of those who work in Administration likes either Badminton or Lawn Tennis.**

**Harry does not like Cricket.**

**Who are the employees who work in the Administration Department?**

**In which Department does Earl work?**

**Sol:**

**Betty, Carol and Dan work in Administration department.**

**Earl works in the Marketing department.**