

Problem 1:

Every year, Darren throws a costume party to break up the winter doldrums. Like any good costume party, Darren's parties always have a theme, and this year's theme was "living history." Seven couples (including Darren and his girlfriend) attended the party. Each of the seven women (Angie, Grace, Helen, Lily, Meredith, Violet, and Wilma) arrived dressed as a different legendary woman (Amelia Earhart, Annie Oakley, Cleopatra, Indira Gandhi, Marie Antoinette, Mother Theresa, or Queen Victoria), and each of the seven men (Chuck, Darren, Graham, Hugh, Mark, Russell, and Troy) showed up dressed as a different historical man (Abraham Lincoln, Augustus Caesar, Benjamin Franklin, Mark Twain, Napoleon Bonaparte, Pablo Picasso, or Winston Churchill). The party was a smashing success—it's already being hailed as an event that will go down in history! From the information provided, determine the man and woman (identified by first and last names—no two people have the same surname) that make up each couple and the historical costume that each person wore.

1. The seven women are Lily (who is dating Mr. Gore), Ms. Vanni (whose date dressed up as Winston Churchill), Angie (whose date impersonated Napoleon Bonaparte), Grace (who is dating Troy), Ms. Katz, the one who dressed up as Queen Victoria, and Ms. Carr.
2. The seven men are Ms. Morton's date (who wore a Pablo Picasso costume), Hugh (who is dating Violet), Mark (who is dating Wilma), the man who dressed up as Abraham Lincoln (whose date dressed up as Cleopatra), Russell Bloch, Mr. Ranelli, and Chuck.
3. The seven women are the one who dressed up as Amelia Earhart (who is dating Mr. Chesterton), Ms. Lotus (who is dating Mr. Howe), the one who dressed up as Indira Gandhi, Ms. Bames, Helen, Ms. Potter, and Mr. Brittain's date.
4. The seven men are Meredith's date (who wore an Abraham Lincoln costume), Graham, Mr. Abercrombie, and the men who dressed up as Augustus Caesar, Benjamin Franklin, Pablo Picasso, and Winston Churchill.
5. Ms. Carr (who isn't Mr. Chesterton's date) didn't dress up as Cleopatra. Violet isn't Ms. Vanni. Mark didn't impersonate Winston Churchill. Angie didn't dress up as Amelia Earhart.
6. Mr. Howe didn't wear a Benjamin Franklin costume. Lily isn't Ms. Bames (who didn't dress up as Annie Oakley). Wilma didn't dress up as Indira Gandhi. Graham's date isn't the woman who dressed up as Marie Antoinette (who isn't Ms. Potter).

WOMAN'S FIRST NAME	WOMAN'S LAST NAME	WOMAN'S COSTUME	MAN'S FIRST NAME	MAN'S LAST NAME	MAN'S COSTUME

Problem 2:

Recently, the Galactic Confederation sent out 15 starships on routine supply missions. Each starship traveled to a different planet, each of which is in one of four quadrants (Alpha, Beta, Gamma, or Delta). Although the trips can be long, the crews always relish a chance to get into the black! From the information provided, can you determine the starship that went to each planet and the quadrant in which each planet can be found?

1. The 15 starships are the *Brilliance*, the *Citizen*, the *Dragonfly*, the *Honor Guard*, the *Jacob's Ladder*, the *Knight-Errant*, the ones that went to planets Apollo, Bacchus, Electra, Hippolyta, Loki, and Thor, and three planets in the Alpha Quadrant.
2. The 15 starships are the *Fair Play*, the *Optimism*, the *Nightside*, the *Proximity*, the *Rubicund*, the *Shepherd*, the *Tangram*, the *Watchword*, the ones that went to planets Kali, Ogma, Shiva, and Vishnu, and three planets in the Delta Quadrant.
3. The five Cosmos-class starships are the *Citizen* (which didn't go to the Gamma Quadrant), the *Brilliance*, and the ones that went to planets Ganesha, Minerva, and Shiva.
4. The five Nebula-class starships are the *Honor Guard*, the *Jacob's Ladder*, the *Watchword*, and the ones that went to planets Electra and Thor. The five Quasar-class starships are the *Nightside*, the *Proximity*, and the ones that went to planets Bacchus, Kali, and Loki.
5. Three starships that went to the Gamma Quadrant are the *Jacob's Ladder* and the two starships that went to planets Kali and Vishnu. Three ships that went to the Beta Quadrant are the *Knight-Errant*, the *Proximity*, and the starship that went to planet Loki.
6. Three starships of the same class are the *Knight-Errant*, the one that went to planet Poseidon, and the starship that went to planet Vishnu. Both the *Optimism* (which is the same class of starship as the one that went to planet Narcissus) and the *Rubicund* went to the Gamma Quadrant.
7. Three starships of the same class are the *Moonstone*, the one that went to planet Chimera, and the starship that went to planet Hippolyta. The *Dragonfly* is the same class of starship as the *Tangram*. Planet Chimera is in the same quadrant as planet Poseidon.
8. The *Shepherd* didn't go to planet Minerva. The *Rubicund* didn't go to planet Thor. The *Watchword* went to a planet located in the same quadrant as planet Apollo.

STARSHIP	PLANET	QUADRANT	STARSHIP	PLANET	QUADRANT	STARSHIP	PLANET	QUADRANT

Problem 3:

Madame Zabrina, psychic extraordinaire, has a number of celebrity clients the world over. During a brief visit to California recently, each of eight celebrities, no two of whom have the same astrological sign, scheduled an appointment for a different time (1:00, 2:00, 3:00, 4:00, 5:00, 6:00, 7:00, or 8:00 p.m.). Madame Zabrina used a different method to divine the fortune of each person, and she made a different prediction about each celebrity to close the session. From the information provided, determine the time of each person's appointment and his or her astrological sign, as well as the method Madame Zabrina used to read each person's fortune and the prediction she made for him or her.

1. The Pisces and the person whose dreams were interpreted are Imogene and the person whose fortune called for him or her to meet a tall, attractive stranger, in some order.
2. Jim had his fortune read exactly one hour before the person who was told that he or she will soon be traveling extensively. The Capricorn's appointment was at some point before that of the person whose fortune was read through astrology.
3. Madame Zabrina used geomancy to determine the fortune of her 7:00 p.m. client. She predicted that the Gemini will soon win a prestigious award. Pedro is a Taurus.
4. Mindy and the customer whose fortune was read through scrying (who isn't Mindy) are the one who was told that he or she will become a film director and a person whose fortune was told at some point before the celebrity who had the tarot-card reading, in some order.
5. The celebrities whose fortunes were divined through a tarot-card reading, tasseomancy, and dream interpretation are the Pisces, Kelly, and the one who was told that he or she will start a successful clothing line, in some order.
6. The Virgo and the 4:00 p.m. client are the one whose fortune was read through numerology and the one who was told that he or she will have four children, in some order.
7. The Leo met with Madame Zabrina at some point after the Scorpio. Tasseomancy (the reading of tea leaves) wasn't the method used to tell a customer that he or she will meet a tall, attractive stranger.
8. The person who will start a clothing line met with Madame Zabrina exactly one hour before Mindy, who had her fortune told exactly one hour before the person whose palm was read, who met with Madame Zabrina exactly one hour before the Virgo.
9. Norman's appointment was at some point before the appointment of the person who was told that he or she will attain spiritual enlightenment. The person who had a palm reading isn't the one who was told that he or she will soon fall in love.
10. Lenny's appointment wasn't exactly one hour before the Pisces's appointment. Theresa's appointment was at some point before the appointment of the Aries. Jim, Lenny, and Norman are the Virgo, the one whose fortune was read through astrology, and the person who will travel, in some order.

TIME	PERSON	SIGN	METHOD	PREDICTION

Problem 4:

I'm a huge fan of film noir, so you can imagine my excitement when three local theaters decided to show seven such movies last week. Of course, I went to all seven films, each of which had originally been released in a different year (1941 through 1947). Each movie was shown at one of three theaters (Palace, State, or Westerly) on a different day of the week (Sunday through Saturday) at a different time. Luckily, I was able to convince one of my three friends (Drake, Kirk, or Renee) to accompany me to each film so I didn't have to watch alone. Why do I like film noir so much? It's a mystery to me! From the information provided, determine the day each movie was screened, the year it was filmed, the theater that showed it, the time it started (7:30, 7:35, 7:40, 7:45, 7:50, 7:55, or 8:00 p.m.), and the friend I brought along to see it.

1. *The Raven's Beak* isn't the movie I watched on Friday (which I saw at the State). I didn't see the film from 1947 on Saturday. Both the movie I saw the day before *Lovely Shadows* and the film I saw the day after *Lovely Shadows* (at least one of which was shown at the Westerly) started at some point later in the day than *Lovely Shadows*.
2. I saw both *Frisco by Dusk* and *Nightshade* with the same friend. I saw *Nightshade* exactly three days before I saw *Frisco by Dusk* (which started exactly 10 minutes after *Nightshade*). The movie that started at 7:30 p.m. wasn't shown at the Palace.
3. I saw the movie that started at 7:35 p.m. and the film that began at 7:40 p.m. on consecutive days. The person who saw *Touch of Gloom* with me isn't the same friend I took to the 7:35 p.m. movie. I didn't take the same friend to the movies on three consecutive days.
4. *Touch of Gloom* was filmed in an earlier year than *The Smoky Room*, which was filmed in an earlier year than the movie I saw on Sunday at the Palace. Each of the movies I saw later in the week than *The Big Dark* started at a later time than *The Big Dark*.
5. I saw the 1941 movie (which wasn't playing at the Westerly) exactly three days after I saw *Lovely Shadows* with Drake. I didn't go to the same theater on two consecutive days.
6. I saw the movie that started at 7:55 p.m. with Drake the day before I saw *The Big Dark*. I saw at least one movie with Kirk at some point later in the week than I saw *The Big Dark*.
7. *The Raven's Beak* didn't start at 7:50 p.m. I saw exactly two movies at the Palace. I didn't see the flick released in 1945 on Monday. The only two films I saw with Renee were screened on consecutive days.
8. The Sunday movie started exactly 15 minutes earlier in the day than the Saturday movie (which was shown in the same theater as the Tuesday movie). The 7:45 p.m. movie was released exactly two years before *The Raven's Beak*.

TIME	PERSON	SIGN	METHOD	PREDICTION

Problem 5:

Port Hubbard celebrates its founding with a yearly parade. This year's parade featured eight floats, each in the shape of a different nautical-themed object and covered with a different type of flower. Each float was sponsored by a different business and driven by a different person who waved to the crowd around the grandstand as he or she passed by, one at a time. From the information provided, determine the order in which the float of each shape passed the grandstand and the flower that covered it, as well as the sponsoring business and driver of each float.

1. The float covered in pansies passed the grandstand exactly four after the one driven by Valerie. Either Alfred or Greg drove the float covered in lilies.
2. The second, third, and fourth floats to pass the grandstand were the one sponsored by Thome Books, the float shaped like an octopus, and the one covered in daffodils, in some order.
3. Dinah didn't drive the float that passed the grandstand exactly two after the one shaped like a diving bell. The fifth float to go by was sponsored by either Family Fitness Gym or Heel to Toe Shoes.
4. The float sponsored by Lyrix Music Shop passed the grandstand exactly four after the one sponsored by Cafe Ruggio. The float covered in orchids went by exactly three after the one sponsored by Thome Books.
5. The float covered in violets passed the grandstand either exactly three before or exactly three after the float shaped like a sea horse. The third float to pass the grandstand was driven by either Dinah or Greg.
6. The float driven by Kalil passed the grandstand either immediately before or immediately after the one shaped like a nautilus. The float driven by Rudy passed the grandstand exactly two after the one sponsored by the local Shop'n'Save.
7. The float sponsored by Lyrix Music Shop passed the grandstand either immediately before or immediately after the one covered in cherry blossoms. Either Alfred or Odette drove the float sponsored by Family Fitness Gym.
8. The mermaid float passed the grandstand immediately after the one sponsored by Pegasus Jewelry but immediately before the float driven by Marlene. The seventh float was shaped like either a nautilus or a whale.
9. The float covered in roses passed the grandstand exactly two after the one sponsored by Heel to Toe Shoes. The float sponsored by Bixby's Used Autos passed the grandstand immediately after the one shaped like the lost city of Atlantis.
10. The float shaped like a submarine passed the grandstand immediately after the whale float. The float covered in carnations passed the grandstand after at least one other float.

ORDER	SHAPE	FLOWER	BUSINESS	DRIVER

Problem 6:

I have gotten a reputation as a person who never travels. The reason for this is simple—why travel when you can get just as much enjoyment out of **housesitting**? In each of seven months last year, I **housesat** for seven couples, each of whom traveled to a different state (including Alabama). Each husband (**Alex**, Dan, **Fritz**, **Mick**, Nicholas, Oliver, or Samuel) and wife (Agnes, **Denise**, Felicia, Mildred, **Norma**, Opal, or **Selma**) share a surname (three last names are **Adamson**, **Norris**, and **O'Neil**), and each couple's house has a different amenity (including a sauna) that I found particularly enjoyable. After all, there's no place like someone **else's** home! From the information provided, can you determine the month (February, March, August, September, October, November, or December) I housesat for each **husband-and-wife** couple, their shared last name, the state they visited, and the amenity I enjoyed at their home?

1. For each couple, the initials of the husband and wife, their shared surname, the month in which they traveled, and the state they visited are five different letters. One couple went to South Dakota in October.
2. The Florida trip was at some point later in the year than the Montana trip but at some point earlier in the year than the Delaware trip, which was at some point earlier in the year than the trip to New Mexico. Alex (who didn't go to New Mexico) isn't married to Felicia (who isn't **surnamed Dalloway**).
3. Dan and his wife traveled exactly two months after the Samsons. The Oklahoma trip was at some point earlier in the year than the trip made by the **Ferri** couple. Norma and her husband aren't the couple with satellite TV.
4. The couple with the **Xbox** took a trip at some point later in the year than Agnes and her husband but at some point earlier in the year than the couple that went to Florida. Selma and her husband own the billiards table.
5. Nicholas and his wife took their trip at some point earlier in the year than the couple with high-speed Internet access (who aren't the Marshes). Mick Dalloway and his wife (who isn't Norma) traveled at some point earlier in the year than the couple with a propane barbecue.
6. Opal and her husband traveled at some point earlier in the year than the Samsons. Neither the couple whose house has a swimming pool (who didn't go to Delaware) nor the couple that went to Montana are the Samsons.

MONTH	HUSBAND	WIFE	LAST NAME	STATE	AMENITY

Problem 7:

We're here at the Annual Townsville Soapbox Derby to congratulate the first nine racers to cross the finish line. Strangely enough, the nine children (five of whom—Barbara, Jennifer, Julie, Martha, and Rose—are girls, and four of whom—David, Dwight, Michael, and Ryan—are boys) consist of three sets of twins and one set of triplets. Each child has a different number emblazoned on his or her soapbox racer, each of which was constructed using a box from one of four brands of soap (Bubble, Kleeno, Pure, or Sparkle) and wheels scavenged from one of four items (dolly, lawn mower, skateboard, or tricycle). As the officials award the first-place trophy to the winner, they are congratulating all the children for participating in a nice clean race! From the information provided, determine the brand of soapbox and the type of wheel each child (identified by first and last names—one surname is Theroux) used to make his or her racer, as well as the number (08, 18, 19, 24, 25, 27, 31, 32, or 33) given to each child. (Note: Siblings share the same surname.)

1. No child used either a box from the same brand of soap or the same type of wheel as any of his or her siblings. No two racers made from a box of the same brand of soap used the same type of wheel.
2. No pair of twins share the same first-name initial. No child has the same first-name initial as a child who used the same type of wheel as him or her. There are at least two racers made from a box of each brand of soap and at least two racers fashioned with each type of wheel.
3. No triplet used a Sparkle soapbox, and no triplet used lawn-mower wheels. No lawn-mower wheels were attached to Sparkle soapboxes. The female triplet who used a Bubble soapbox and was assigned number 32 doesn't share a first-name initial with any twin.
4. Neither Barbara (who used dolly wheels) nor her sister was assigned a number higher than 20. The Newsome twins are a girl who used lawn-mower wheels and a child who used a Pure soapbox; one of these children was assigned a number either exactly 7 higher or exactly 7 lower than the other.
5. One of the Goddard twins has the same first-name initial as one of Dwight's siblings. Julie was assigned an odd number.
6. Two children who used Kleeno soapboxes are David (whose number wasn't the lowest one assigned to a member of his family) and the one who was given number 19. Dwight didn't use skateboard wheels. Ryan was assigned a higher number than both of his siblings.
7. Martha's number is either exactly 8 higher or exactly 8 lower than Rose's number. Jennifer's soapbox is the same brand as Martha's soapbox. One triplet used a Pure soapbox and tricycle wheels.
8. One child made a racer from a Kleeno soapbox and tricycle wheels. A child surnamed Litchfield was assigned number 27, which is lower than his or her twin's number. No more than two children made racers with a Pure soapbox.

FIRST NAME	LAST NAME	SOAPBOX	WHEEL	NUMBER