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HOW TO SOLVE

Let's look at a typical puzzle

PET OWNERS

Each of four men owns a different species of exotic pet. From the following clues, can you figure out each man's full name and what kind of pet he owns?

- Mr. Engels (whose pet is named Sparky), Abner, and Mr. Foster all belong to a club for owners of unusual pets.
- 2. The iguana isn't owned by either Chuck or Duane.
- 3. Neither the lackal nor the king cobra is owned by Mr. Foster.
- The llama doesn't belong to Duane (whose pet is named Waggles).
- 5. Abner, who doesn't own the king cobra, isn't Mr. Gunter.
- 6. Bruce and Mr. Foster are neighbors.
- 7. Mr. Halevy is afraid of iguanas.

	Engels	Foster	Gunter	Halevy	lguana	Jackal	King ∞bra	Llama
Abner								
Bruce								
Chuck								
Duane								
Iguana								
Jackal								
King cobra								
Llama								

Let's take a look at clue 1. From it we can see that Abner isn't Mr. Engels or Mr. Foster. We record this information in the solving grid by putting an X (meaning "no") in the square at the intersection of "Abner" and "Engels," and another X at the intersection of "Abner" and "Foster."

Now let's look at clue 5. From it we learn that Abner doesn't own the king cobra, and that Abner isn't Mr. Gunter. Put X's in the intersections of "Abner" and "Gunter," and "Abner" and "King cobra."

,	Engels	Foster	Gunter	Halevy	Iguana	Jackal	King cobra	Llama
Abner	X	X	X				X	
Bruce								
Chuck								
Duane								
Iguana								
Jackal								
King cobra								
Llama								

LOGIC PROBLEMS

If you were careless, you might without thinking put an X into the intersection of "Gunter" and "King cobra." Does Mr. Gunter own the king cobra? Well, maybe he does and maybe he doesn't, but clue 5 really doesn't say anything about it. Read each clue carefully and think about what it's really saying; If you jump to a wrong conclusion now, you'll be confused later on.

Now we can see at a glance that Abner isn't Mr. Engels, Mr. Foster, or Mr. Gunter. We can make a deduction: Abner must be Mr. Halevy. We'll put a large dot (meaning "yes") in the intersection of "Abner" and "Halevy." And that means we can also put X's in the intersections of "Halevy" and "Bruce," "Chuck," and "Duane." Whenever you add a dot to the grid, be sure to add any X's you can; they'll often lead to more deductions.

•	Engels	Foster	Gunter	Halevy
Abner	X	X	Χ	•
Bruce				X
Chuck				X
Duane				\overline{X}

That was a fairly simple deduction, but in order to solve this puzzle you'll need to make some deductions that are a little trickier. Go through the rest of the clues and put X's into the grid wherever you can.

You'll end up with this:

	Engels	Foster	Gunter	Halevy	Iguana	Jackal	King cobra	Llama
Abner	Х	X	Χ	٠			X	
Bruce		X		X				
Chuck				X	X			\neg
Duane				X	X			X
Iguana				X				
Jackal		X						
King cobra		X						
Llama								

Sometimes, with a very easy puzzle, just putting the information in the grid is enough to make the solution fall out to you. This puzzle's a bit harder, though, and at first glance there doesn't seem to be enough information to make any more deductions. But the information is there; you just have to work with it a little. Take a pencil and fill in the rest of the grid yourself as you read on.

Mr. Halevy doesn't own the iguana. Since Abner is Mr. Halevy, that means Abner doesn't own the iguana either, right? Put an X in the intersection of "Abner" and "Iguana" and you're ready to make another deduction: the iguana is owned by Bruce. Add the appropriate dot and X's to the grid. (Transferring information from one section of the grid to another, as you just did, is an important step in solving, and it's an easy one to overlook.) Bruce isn't Mr. Foster, so Mr. Foster doesn't own the iguana. Vollà! Another deduction: Mr. Foster owns the llama.

Mr. Foster is either Chuck or Duane, while the llama's owner is either Abner or Chuck. Since both are the same man, it must be Chuck who is Mr. Foster and owns the llama.

Now Abner Halevy's pet can only be the jackal, and Duane's pet, by elimination, must be the king cobra. Don't forget to add a dot at the intersection of "Halevy" and "Jackal," and the X's that go with it.

And now you seem to be stuck. Bruce owns the iguana, and Duane owns the king cobra, but you can't tell from the grid which one is Mr. Engels and which one is Mr. Gunter. Is there anything in the clues you've missed? Why, yes: Mr. Engels' pet is named Sparky (clue 1), while Duane's pet is named Waggles (clue 4), so Duane can't be Mr. Engels. As you solve logic puzzles, you'll learn that you often need to combine facts from two or more clues to make a deduction.

So here's your final solution: Bruce Engels owns the Iguana, Chuck Foster owns the Ilama, Duane Gunter owns the king cobra, and Abner Halevy owns the jackal.

In Sharon's latest collection of short stories for children, four animal friends are invited to a tea party, and each decides to purchase a hat and tie for the occasion. Sharon has just finished assembling the illustrations of each animal (including the sloth) in the different hat and tie that he or she chooses. From the following clues, can you match each animal with his or her hat and tie?

	Beret	Cloche	Sombrero	Top hat	Bolo	Bow	String	Windsor
Cockatoo								
Elephant								
Penguin								
Sloth								
Bolo							-	
Bow								
String								
Windsor								

- 1. The penguin doesn't select the cloche.
- Neither the penguin nor the elephant chooses the bow tle.
- 3. The cockatoo, who wears the top hat, selects either the string tie or the bolo tie.
- 4. The sombrero is worn by the elephant.
- The animal who chooses the Windsor tie wears either the beret or the cloche.
- 6. The sombrero is not worn with the string tie.

BEDTIME!

The parental cry of "Bedtime!" is met with groans by most children in Davenport Heights, but not by five lucky children (three boys named Art, Cedric, and Manuel, and two girls named Diana and Peggie) who have rather indulgent parents. While the other neighborhood children are snuggling into their ordinary single beds, each of these five retires to a different, rather unusual type of bed (one sleeps in a Murphy bed). From the Information below, can you determine each child's full name, as well as the type of bed in which each sleeps?

		Adams	Czeno	Dallard	Garvey	Webb	Angel	Bunk bed	Hammock	Murphy	Poster
	Art										
	Cedric										
	Diana										
	Manuel										
	Peggie										
	Angel										
	Bunk bed										
İ	Hammock										
-	Murphy										
	Poster	- 1]			- 1					

- 1. Manuel and the boy surnamed Garvey sleep in an angel bed and a hammock, in some order.
- 2. The child surnamed Czeno sleeps in a poster bed.
- 3. The one surnamed Adams (who is neither Diana nor Art) sleeps in a bunk bed.
- 4. The one who sleeps in the hammock, who isn't Art, isn't surnamed Dallard.
- 5. One girl is surnamed Webb.

MONKEY BUSINESS

The Deliville Zoo recently acquired five new animals for its primate house. Each primate (no two of whom are the same type—one is a capuchin) has been given a different name by the zookeepers. From the following clues, can you determine the order in which the zoo acquired each animal, as well as that animal's name?

- The marmoset, who isn't Hawthorne, and the chimpanzee were acquired first and fifth, in some order.
- Franklin and Shadow, neither of whom is the orangutan, arrived second and third, in some order.
- 3. Suzie didn't arrive first or fifth.
- 4. Nelson arrived either immediately before or immediately after the tarsier, who isn't Franklin.

	Capuchin	Chimpanzee	Marmoset	Orangutan	Tarsier	Franklin	Hawthorne	Nelson	Shadow	Suzie
First										
Second				٠.						
Third										
Fourth										
Fifth										
Franklin										
Hawthorne										
Nelson										
Shadow								•		
Suzie										

HAPPY BIRTHDAYS

Five lucky children (including Donna) are celebrating their birthdays at Tracey's Birthday Shack today. Each party is taking place in a different room (numbered one through five in the illustration), and each has a different theme (one party is based on cartoon characters). From the following clues, match the full name of each child (one surname is Osman) with the room in which his or her party is being held, as well as with its theme.

- 1. Brenda's room is somewhere to the left of the pirate-themed party.
- 2. The Morse child isn't the one having the party with the animal theme.
- 3. The sports-related party is in a room somewhere to the right of the Lang child's room.
- 4. Colin's surname isn't Pringle.
- 5. The room hosting the sports party is somewhere to the left of that of the Morse child, which is somewhere to the left of Brenda's room.
- 6. The Pringle child is somewhere to the left of Edith, who is somewhere to the left of the child having the fairy party.
- 7. Adam's room is somewhere to the right of the Naten child's room.

LEFT 1 2 3 4 5 RIGHT

Philip loves to take his three-year-old granddaughter, Heather, out for evening walks down by the pond that borders his farm. Philip sets the little girl up on his shoulders and points out the various animals that roam the farm each night. Last night, the two saw four different types of animal (including a raccoon) on their walk, and each animal was engaged in a different activity (one was playing). From the following clues, can you determine the order in which Philip and Heather saw each animal, as well as each animal's activity?

	Deer	Fox	Opossum	Raccoon	Bathing	Eating	Playing	Sleeping
First								
Second								
Third								
Fourth								
Bathing								
Eating								
Playing								
Sleeping								

- 1. Philip and Heather saw an animal bathing immediately after they saw another animal sleeping.
- 2. Both the deer and the first animal they spotted have been seen around the farm before.
- 3. The second animal the two spotted was eating.
- 4. The fox was sleeping.
- 5. The opossum was the last animal spotted.

BOOKWORMS

Five friends take part in a book club, which meets monthly to discuss a book they have all read. For each of the past five months (from October to February), a different friend in the club selected a book of a different genre (including a mystery) for the group to read. From the following clues, can you match each friend with the month in which he or she made the selection, as well as the type of book he or she chose?

	Casey	Keliy	Myra	Rona	Simon	Biography	Historical	Mystery	Romance	Suspense
October										
November										[
December										
January										
February										
Blography										
Historical										
Mystery										
Romance										
Suspense										

- 1. The suspense book was discussed in December.
- Simon, who didn't make the January selection, didn't choose the book the group read in October (which wasn't the romance novel).
- 3. Myra chose the biography, and the group discussed it the month after they talked about Simon's selection.
- 4. Rona's book, which wasn't the historical novel, was discussed the month before Kelly's selection.
- 5. Casey didn't choose the romance novel.

MAPLE DELIGHTS

Sandra's Sweet Shoppe offers goodies to tempt every sweet tooth, but its top sellers are treats made with locally produced maple syrup. Each day this past week (from Monday through Friday), a different customer bought out the store's entire supply of a different maple delight (including maple walnut cake). From the clues below, can you determine the day each customer (identified by full name—one surname is Krips) emptied the Shoppe of a maple treat? *Note:* Men are Alvin and Brian, and women are Anna, Jenny, and Madge.

- 1. The two men are the one who purchased the maple fudge and Mr. French.
- 2. Friday's customer isn't the one who bought the maple ice cream (who isn't Jenny).
- The one surnamed Lancy made his or her purchase the day after a person bought a supply of maple fudge and two days after Anna visited the Shoppe.
- 4. The one surnamed Moles bought the maple cheesecake the day after the one surnamed Innes made a purchase, which was at some point after someone (who isn't Brian) bought all the maple cookies.

Day	First name	Last name	Treat
L	<u> </u>		

A ROOM WITH A VIEW

After a long period of construction, the Tower Apartments finally opened last year. Each of the four units on the thirtieth floor (numbered one through four in the illustration) boasts a breathtaking view of the city. Each of these four apartments garnered new tenants in a different month (March, May, July, or September), and each unit has either one or two residents. In all, six tenants (four women named Cara, Emma, Eve, and Sarah, and two men named Patrick and Steve) occupy the new units. Can you determine the full name (one surname is Morton) of each unit's resident or residents, as well as the month in which they moved? *Note:* Any two people who reside together in an apartment share a surname, but no one shares a surname with any person from another apartment.

- 1. Steve's apartment is somewhere north of the one that became occupied in July.
- 2. Sarah, who lives alone, moved in at some point before Patrick.
- A person surnamed Norris and Cara (whose surname isn't Norris) occupy unit one and moved into the apartment building in May, in some order.
- Eve and her female roommate arrived two months before the occupant or occupants of unit three and at some point after Mr. Spencer.
- Emma moved to the Tower Apartments in September; at least one person (but not Cara) is surnamed Hensel.



1	2
3	4

One of our solvers, Mrs. Holmes, enjoys playing practical jokes on her children (three boys named Barry, Geoffrey, and Stephen, and two girls named Margaret and Penelope). The kids recently got the better of their mother, however, by sneaking into Mrs. Holmes's study, where she keeps her logic magazines, and snipping out the solution to a different logic puzzle (including "In a Jam") which she had not yet completed. Each then hid the solution in a different room of the house (one was concealed in the living room), and the kids left their mother a set of clues so that she could determine who took which solution and where it was hidden. Can you?

	Art Smart	Bake Sale	In a Jam	Soup Mix	Tug of War	Basement	Bedroom	Den	Dining room	Living room
Barry										
Geoffrey										
Margaret										
Penelope						\neg	\neg			
Stephen								7		
Basement	1				一					
Bedroom	1									
Den	١,									
Dining room					7					
Living room										

- 1. Stephen did not hide his solution in the basement.
- 2. No one hid the solutions to "Bake Sale" or "Art Smart" in the den.
- One of the children hid the answer to "Tug of War" in the bedroom,
- Margaret was too scared to go down to the basement, so she hid her solution in another room of the house.
- 5. Barry hid his answer (which isn't to "Art Smart") in the dining room.
- One of the boys hid his solution in the den, but Stephen hid the answer to "Soup Mix" in a different room.

TEED OFF

Two men (Grant and Peter) and two women (Ida and Marcia) formed a foursome for a round of golf last Wednesday. Each used a different brand of golf ball (Dunlop, Maxifly, SureShot, or Titleist) and a different brand of club (Callaway, Hogan, Ping, or Taylor). Each ended up with a different score (83, 88, 94, or 97 strokes). Can you determine each player's score, ball, and club brand?

			_		_								
		83	88	94	97	Dunlop	Maxifly	SureShot	Titleist	Callaway	Hogan	Ping	Taylor
	Grant												
	lda												
	Marcia												
	Peter				\neg		1						
	Callaway												
	Hogan				7								
l	Ping						\neg						
	Taylor				1								
	Dunlop			T	T								
	Maxilly	1		1									
	SureShot												
Γ	Titleist				\neg								

- 1. No one used a Callaway club to hit a Maxifly ball.
- 2. Ida had a lower score than the one who used SureShot balls and a higher score than the one who used Dunlops.
- 3. The man who used Maxifly balls had a higher score than the person who used Ping clubs.
- 4. The woman with the Taylor clubs didn't use the Titleist balls.
- 5. Peter had a higher score than the person who used Hogan clubs.

EGG HEADS

Each spring, the town of Stoneridge holds its annual Easter Egg Hunt on the Town Square, attracting children of all ages. The hunt is divided into five age groups: under 3, 3 to 5, 6 to 8, 9 to 11, and 12 and over. Each group hunts for a different color egg (including pink), and the winner in each group receives a chocolate bunny. Can you match each winning child with his or her age group and egg color? *Note:* Boys are Brett, George, and Max, and girls are Lindsey and Tammy.

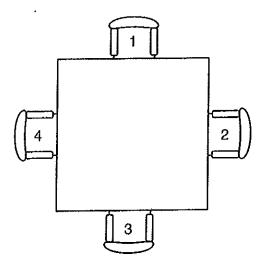
- The winner of the 3-to-5 age group (who wasn't looking for yellow eggs) is a girl.
- 2. The children in the 9-to-11 group were looking for blue eggs.
- Lindsey is in a higher age group than the children looking for orange eggs (which wasn't Tammy's group), who are in a higher age group than George.
- The winning child who looked for green eggs (who isn't Lindsey) is in an older age group than Brett.

	Under 3	3 to 5	6 to 8	9 to 11	12 and over	Blue	Green	Orange	Pink	Yellow
Brett										
George										
Lindsey										
Max										
Tammy										
Blue										
Green									•	
Orange										
Pink										
Yellow										

IN GOOD HANDS

Four employees of the Statewide Insurance Company met for breakfast this morning before beginning work. They occupied a square table at the local diner, and each ordered a different breakfast dish. Each person is in charge of a different insurance department at work (one sells house insurance). From the following clues, can you determine each person's seat number (one through four in the illustration), his or her breakfast order, and the type of insurance he or she sells? *Note:* "Left" and "right" refer to each person's left and right as he or she sits facing the table.

- 1. Agnes, who sells health insurance, sat directly across from the person who ate waffles.
- 2. Lily sat to the immediate right of the person who sells dental insurance.
- 3. Boris sat directly across from the person who ordered an omelet.
- The person who ate French toast sat in seat number four.
- 5. Melvin sat directly across from the person who ate scrambled eggs.
- The one who sells automobile insurance (who isn't Lily) ordered either waffles or an omelet.



Stacy had a busy day at her jewelry store, as each of five young girls (including Tonya) arrived to have her ears pierced. Each child arrived at a different time (9:00 a.m., 10:00 a.m., 12:00 p.m., 3:00 p.m., or 4:00 p.m.) with a different relative (including her brother). From the following information, can you determine the name of the girl who arrived at each time, as well as the relative accompanying her?

	Anita	Janice	Polly	Regina	Tonya	Aunt	Brother	Father	Mother	Sister
9:00 a.m.										
10:00 a.m.										
12:00 p.m.								1		
3:00 p.m.					\neg					
4:00 p.m.			1	\neg						\neg
Aunt										
Brother										
Father	1									
Mother				\Box						
Sister		1			\neg					

- Anita had her ears pierced no more than two hours before or two hours after the girl who arrived with her mother.
- 2. Polly arrived during the morning.
- 3. Ms. Fithian brought her little sister to the shop three hours after Janice had her ears pierced and four hours before a father arrived with his daughter.
- 4. Regina was accompanied by her aunt.

RICE RECIPES

Four Swiss chefs (including Frantz) recently got together to present their favorite rice recipes. Each person resides in a different city in Switzerland (one is from Zurich) and met each of the other three at a special cooking festival. Each chef used a different type of rice, which he or she boiled in a different type of liquid. From the following information, can you match the name of each chef with his or her city, type of rice, and boiling liquid?

	Lausanne	Montreux	Saint Gall	Zurich	Arborio	Basmati	Brown	Jasmine	Juice	Milk	Stock	Water
Anholt												
Caplan												
Frantz												
Tyreli												
Juice						\neg						
Milk						\neg						
Stock												
Water												
Arborio		\sqcap										
Basmati												
Brown												
Jasmine												

- Anholt used the cooking station next to that of the one from Lausanne.
- The one who boiled his or her rice in milk is neither Caplan (who didn't boil his rice in water) nor Tyrell.
- 3. The chef from Montreux and the one who used brown rice joined Anholt for a cup of coffee after the first day of the festival.
- 4. The chef who cooked with arborio rice didn't boil it in stock or water.
- The chef who hails from Saint Gall and Caplan took the stairs to the cooking facility, while the one who boiled rice with stock and the person who used basmati rice rode up in the elevator.
- 6. The one who used arborio rice, who isn't Anholt, didn't boil the rice in juice.
- 7. The person from Montreux didn't use jasmine rice.

The weather in their southern California town was so pleasant last month that the Gladstones threw an impromptu garden party. Four of their guests (including Nadine) are musicians, and each offered to play his or her different instrument in a different part of the garden for an hour or two. To prove themselves even more indispensable to the Gladstones, each of the four also brought along a different game (including Scrabble) to entertain those guests who wandered inside. From the following clues, can you match each musician with his or her instrument, place in the garden, and game?

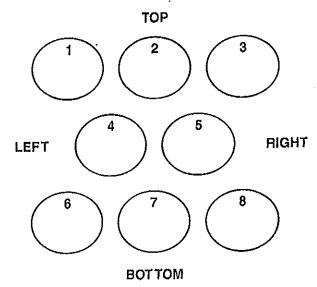
- The four musicians are Jason, the person who brought Twister, the one who plays the mandolin, and the person who entertained on the veranda.
- 2. Walter doesn't play the guitar.
- 3. The person who brought Parcheesi, who isn't Walter, doesn't play the flute.
- 4. The guitar player, who isn't Alicia, didn't sit in the gazebo.
- 5. Jason didn't entertain by the fountain or in the sun tent (which isn't where the violin player performed).
- 6. The one who plays the guitar didn't bring Parcheesi or Twister.
- The flute player didn't bring Monopoly or Twister.

	Flute	Guitar	Mandolin	Violín	Fountain	Gazebo	Sun tent	Veranda	Monopoly	Parcheesi	Scrabble	Twister
Alicia												_
Jason												
Nadine												_
Walter												
Monopoly												
Parcheesi												
Scrabble												
Twister									•			
Fountain												
Gazebo												
Sun tent												
Veranda												

DOUGHNUT DILEMMA

Delia, the proprietor of Delia's Doughnut Den, has a problem. Early this morning, she baked eight of her delicious kinds of doughnuts but forgot to label them before she went out for her cup of coffee. From the following clues, can you help Delia label each doughnut bin (numbered one through eight in the illustration) before the customers arrive?

- The cream-filled doughnuts are somewhere above the glazed doughnuts but somewhere below the cinnamon doughnuts.
- 2. The sugared doughnuts are in the same row as the walnut doughnuts, which are in an even-numbered bin.
- The chocolate-covered doughnuts are in the same row as, and somewhere to the left of, the apple-filled doughnuts.
- The jelly doughnuts are in an odd-numbered bin and are somewhere to the left of the cinnamon doughnuts.
- The sugared doughnuts, which aren't in bin one, are somewhere to the left of the creamfilled doughnuts.



You may not think that the workings of the inner ear are all that enthralling, but that's where you'd be wrong. Skilled puppeteer Earnest Eustachian makes inner ears exciting with his new show, Now Hear This! But it's not all glory and cheers for Earnest: recently, he had to stay up late after a well-received performance to do some repair work on four of his puppets. Each puppet represents a different part of the inner ear (cochlea, eardrum, saccule, or utricle), and each is made of a different material (including felt). Earnest carefully repaired each of them one by one for tomorrow night's show. Can you determine the order in which he repaired each puppet, as well as the material from which it is made?

	Cochlea	Eardrum	Saccule	Utricle	Feit	Sik	Velvet	Wool
First								
Second								
Third					7			
Fourth								
Felt		\neg	T	TÌ			·····	
Silk		•	\neg					
Velvet								
Wool								

- 1. The utricle puppet is made of silk.
- The first and last puppets Earnest repaired are the one made of wool and the one depicting the eardrum, in some order.
- 3. He didn't fix the velvet puppet last, but he did repair it at some point after the one representing the cochlea.
- 4. The second puppet Earnest repaired isn't the one depicting the saccule.

PET TOYS

lke had an interesting weekend pet-sitting for five of his neighbors. Each neighbor dropped off his or her pet on Friday evening, and each pet arrived with his or her different favorite toy (one likes to play with a piece of string). In all, lke found himself in charge of two dogs and three cats. From the following clues, can you determine the order in which each pet arrived, as well as its favorite toy?

	Beany	Chip	Jester	Rocky	Truffles	Ball	Clothespin	Rubber	Shoe	String
First										
Second										
Third				-		-				
Fourth							\neg		1	
Flfth					- 1					
Ball			\neg		\neg					_
Clothespin				7						
Rubber										
Shoe	1		7	T	7					
String										

- 1. Rocky doesn't play with the ball.
- 2. Jester is a dog.
- 3. Chip, who doesn't play with the clothespin, and Rocky arrived first and fifth, in some order.
- 4. Jester arrived immediately before Rocky and immediately after Truffles.
- 5. The two dogs play with the shoe and the clothespin.
- Beany doesn't play with the rubber band or the ball.
- 7. Chip isn't a cat.

LOVE POTION NUMBER NINE

Amy was tired of being "one of the guys" to her pal Joshua and tried to muster the courage to ask him on a real date. Over the course of a month, she tried wearing a different perfume to attract his attention whenever the two met up for a different one of their weekly activities. Things didn't turn out quite the way she had planned, as each of the four scents attracted Joshua's attention in a different, unexpected way. However, Joshua was so flattered by the trouble Amy went to that he asked her for a date anyway! Can you match the week Amy tried each perfume with the activity to which she wore it and the way it attracted attention?

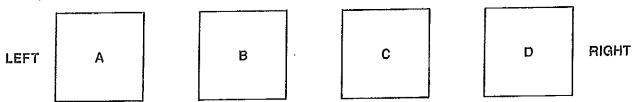
- Joshua frowned in confusion when the scent of Pink Lace drifted his way on the basketball court.
- Neither Heavenly Mist, which didn't make Joshua's eyes water, nor Dream Catcher made Joshua sneeze.
- Amy was understandably mortifled when Joshua was stung by a bee that had been drawn to Amy's perfume on the way to the pizza parlor.
- 4. The fourth perfume was neither Heavenly Mist (which Amy didn't wear the first week) nor Starlight.
- Joshua challenged Amy to a video-game tournament the week after they played basketball.
- 6. Joshua's eyes didn't water at the pool hall.

	Dream	Heavenly	Pink Lace	Starlight	Basketball	Pizza	Pool	Video	Bee	Eyes	Frown	Sneeze
First												_
Second												
Third												
Fourth												
Bee												
Eyes												
Frown												
Sneeze												
Basketball				_								
Pizza												
Pool												
Video												

WORKS OF ART

Four children (two girls named Cindy and Stella, and two boys named Harry and Mitch) are the proud winners in their school's art contest. Each child cut a sheet of construction paper into a different shape (including a star), and decorated it with both a different type of drawing implement (colored pencil, crayon, magic marker, or paintbrush) and a different type of craft material (one used beads). The four projects are now prominently displayed in the hall of the school for all to see! Can you match each child with his or her project (lettered A through D in the illustration), as well as determine that project's shape, drawing implement, and material?

- 1. The heart is neither the project decorated with colored pencil nor the one that used felt.
- 2. The project decorated with a paintbrush is somewhere to the left of both the project with pipe cleaners and the one with the heart but to the right of Harry's.
- 3. The boy who used pipe cleaners didn't make the project in position D.
- 4. The one who used the magic marker, who isn't Cindy, isn't the one who used clay.
- 5. The moon is somewhere to the left of the project done by the boy who decorated with the crayon but somewhere to the right of the flower.



UPDATING AMMELONEA

Five residents of Ammelonea (Amelia, Gwen, Jamal, Olivia, and Tyler) are updating their houses for the town's upcoming annual Home Show. Each resident is remodeling a different room (including a game room) and purchased supplies at a different store. While at the store, each resident asked a different clerk (Annie, Baxter, Cora, Della, or Quinn) for help. From the information below, can you match each resident with the room he or she is updating, the store where he or she bought supplies, and the clerk who helped him or her?

- 1. Tyler didn't go to Shore's Supplies, which isn't where Baxter works.
- 2. Olivia and the one who asked Quinn for help are the one who shopped at Harper's Hardware and the one remodeling the dining room, in some order.
- 3. Three residents are the one who was assisted by Annie (who isn't redoing a bathroom), the one who is updating the bedroom, and the one who went to Shore's Supplies.
- 4. Jamal, who isn't remodeling the bedroom, didn't shop at Shore's Supplies, and Amelia didn't go to Poppie's Paint Place.
- 5. Amelia didn't ask Baxter for help, but Jamai did seek help from Cora.
- 6. Quinn works at Popple's Paint Place; the one who is redoing the living room, who isn't Gwen, didn't shop at Tansy's Treasure Trove.
- 7. Amelia, who didn't ask Delia for help, didn't shop at Art's Accessories.

		Γ	. 1	₹00	m		Т		Stor	' 0		Т	_	Çlei	rk	-	7			
		Bathroom	Bedroom	Dining room	Game room	Living room	Art's Accessories	1	ace	1	Tansy's Treasure Trove		1		Delia	Quinn				
Γ	Amelia																			
Resident	Gwen																			
pis	Jamal										$\neg \uparrow$									
ď	Olivia													\exists						
L	Tyler									1		\exists				\neg				
	Annie								\Box					<u>-</u>						
بد	Baxler											ſ	R	nlee	lent		Room	Q	lore	Clerk
Sex	Cora											}		-		+	1100111		1010	CIGIK
Ĭ.	Della								\Box											
L	Quinn		\bot		\perp		\perp	\perp												
	Art's Accessories											-			_	+				
<u>ي</u>	Harper's Hardware			\bot	_ _								_							
Store	Poppie's Paint Place			\bot														•		
_	Shore's Supplies		\bot	\perp								-				+				
	Tansy's Treasure Trove	\bot				╛														

ONE STEP AT A TIME

The newly opened Reflective Ramble trail has five lookout points (labeled A through E), each of which provides a view of a different area (including Grasshopper Gorge) in the local park. Each overlook contains a marker bearing a different saying (including "The Journey is the Reward") for visitors to contemplate. Can you match each overlook with the area it shows and its marker's saying?

- 1. The view of Hawk Hills isn't visible from overlook A or C.
- 2. The marker with the saying "Stay on the Path" (which isn't at overlook E) doesn't greet hikers at the spot above Hawk Hills.
- 3. Overlook E and the overlook with the marker stating "Look Before You Leap" show views of Coyote Cliffs and Lizard Lake, in some order.
- 4. The marker stating "A Rolling Stone Gathers No Moss" (which isn't at the overlook above Hawk Hills) appears at point D or E.
- 5. Overlook B doesn't have the marker stating "May the Road Rise Up to Meet You."
- 6. The marker stating "Look Before You Leap" appears at point A or B.
- 7. The overlook for Possum Prairie isn't C.
- 8. The overlook for Coyote Cliffs, which doesn't have a marker stating "A Rolling Stone Gathers No Moss," isn't A or B.

					_		_			_~
	Coyote Cliffs	Grasshopper Gorge	Hawk Hills	Lizard Lake	Possum Prairie	"Look Before"	"The Journey"	"May the Road"	"A Rolling Stone"	"Stay on the Path"
А										
В										
C										
Ď										
E							$oxed{oxed}$			
"Look Before"										
*The Journey"										
"May the Road"										
"A Rolling Stone"										
"Stay on the Path"										

Area	Saying
	
<u></u>	
	Area

COMPUTER RECYCLING

Each of four computer companies recently upgraded the design of a different electronic component (including an infrared sensor), thereby eliminating a different chemical from the manufacturing process. Each company (including Parvenue Logix) refurbishes and donates its old computers to a different school (one is Ridgeway Academy). Can you match each company with the component it redesigned, the chemical it eliminated, and the school to which it donated old computers?

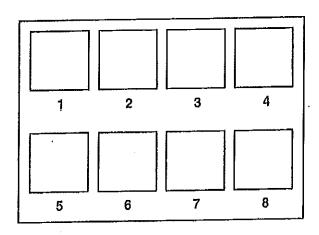
- 1. Three of the companies are DMS Desktops, the one that removed beryllium, and the one that donated computers to Elton Elementary.
- 2. The upgraded rectifier still contains traces of zinc and antimony.
- 3. Novella Systems, which didn't upgrade its transistor, still uses beryllium.
- 4. The four companies are Micro Solutions, the one with the upgraded motherboard, the one that removed zinc, and the one that donated to Glendale Business School.
- The company that upgraded the rectifier, which still uses beryllium, didn't donate to Vanier College or Elton Elementary.
- 6. The company that donated to Glendale Business School, which didn't eliminate the use of cadmium, didn't upgrade its transistor.

	Motherboard	Rectifier	Sensor	Transistor	Antimony	Beryllium	Cadmium	Zinc	Elton	Glendale	Ridgeway	Vanier										
DMS										┪												
Mlcro											\exists											
Novella		\neg	\neg																			
Parvenue							T	7	7	_		7										
Elton			7		\neg	7		一														
Glendale			\exists		7	7	7	ヿ			Cor	nns	ny	Co	mnono	. 1		b a		T		
Ridgeway					\exists	1	_	\neg	-			npe			mponer	-	 -	hemid	aı		Scho	201
Vanler			1	7	\top	\top	1	7								I						
Antimony	\exists		1	7								_				_				1		
Beryllium			1	\neg					+		_	_		-	•,					 -		
Cadmium	\top	\top	T	7								_										
Zinc										_												

HEAVENS ABOVE

Four friends—two boys named Leif and Sonny, and two girls named Luna and Skye—were hanging out at the Celestial Café. Each chose a different pair of songs from the jukebox, which was stocked with hits including "Clouds," "Here Comes the Sun," "Moon River," "Stargazer," and "When You Wish Upon a Star." Can you match the location of each song (numbered one through eight in the illustration) with the friend who selected it?

- 1. Sonny chose two odd-numbered songs, while Skye chose two even-numbered ones.
- 2. The songs in slots two and eight have the same number of words in their titles, while the same is true for the songs in slots one and six; no song is in a slot number that is the same as the number of words in its title.
- 3. Leif chose both "Blue Moon" and the selection in slot three; Luna did not select the song in slot four.
- 4. The song in slot five is "Singin' in the Rain"; both of the songs that have the word "star" in the title occupy odd-numbered slots.
- 5. The girl who chose the song with the longest title did not also choose the song in slot eight (which isn't "You Are My Sunshine").
- 6. The two one-word titles are in consecutively numbered slots.



As four instructors at the Moderno Art Academy waited in line to see an exhibit by an up-and-coming artist, they reminisced about the time that they had attended a lecture given by the famous surrealist painter Salvador Dall. Each of the instructors teaches a different course at the academy, and each had asked Dall a different question (one person asked about his influences) after his lecture. Can you match each instructor with his or her place in line, course, and question?

- 1. The person who asked Dall a question about his training is immediately in front of Edgar, who is somewhere in front of the person who teaches oil painting.
- 2. Neither August (who is somewhere in front of the person who teaches watercolor techniques) nor Claudia asked the question about symbolism.
- 3. The instructor of the drawing class (who didn't ask Dali the question about his sources of inspiration) is either immediately in front of or immediately behind Marie.
- 4. Both the one who teaches sculpture (who isn't Marie) and the first person in line have framed reproductions of Dali paintings in their offices.

	August	Claudia	Edgar	Marie	Drawing	ĪŌ	Sculpture	Watercolor	Influences	Inspiration	Symbolism	Training									
First																					
Second																					
Third																					
Fourth			.]		٦						_										
Influences		\neg	T	1																	
Inspiration		7		\neg			7		ſ		F	 Plac		T	Instruc	ntor.	T	<u> </u>		T	
Symbolism		\neg	\neg	\neg	\neg		1		-			iac		+	monuc	,	_	Cour			Question
Training				1	7	\exists		7					_					•			
Drawing	\Box	T		Ì										T						1	
Oil									-					-		·	+			-	
Sculpture				7					_					\perp							
Watercolor	T	_	丁	7													1				