

(2) “John and Abbott went bowling with Dave and Smith,” means, “Four different people went bowling together. One of these was John, one was Abbott, one was Dave, and one was Smith.”

(4) “Neither Carol nor Bill went to the party, and Norris didn’t go, either,” refers to three different people.

(3) “Jane doesn’t know either Mary or the artist,” means, “Jane doesn’t know Mary, and Jane doesn’t know the artist, and Mary is not the artist.”

(5) In general, “neither ... nor” and “either ... or” sentences will refer to separate things, as in the above examples. Just plain “or” sentences, however, are sometimes less definite, as in this example: “Neither Becky nor Jackson has the dog or is the secretary.” Here, Becky and Jackson are different people, but we aren’t sure that the person who has the dog is not also the secretary.

DETAILED SOLUTIONS

1.

AGES (oldest first)	HEIGHTS (regular first)
Ken	Natalie
Natalie	Ken
Melissa	Jason
Jason	Melissa

For ages, we have (first sentence) Natalie, Melissa, Jason, and (second sentence) Ken, Natalie. For heights, we have (first sentence) Jason, Melissa, and (second sentence) Natalie, Ken, and Jason. Combining these, we have the solution shown.

2.

NAME	COLOR
Betty	pink
Carol	yellow
Dick	red
Joe	green

Red is a boy's favorite color (3) but not Joe's (1), so it is Dick's. Green is not the favorite color of Betty or Carol (1), so it is Joe's. Pink isn't Carol's favorite (2), so it is Betty's, and Carol's favorite is yellow.

3.

NAME	FOOD
Gerry	eggs
Holly	French Toast
Joe	cereal

Joe had cereal (1). Holly didn't have eggs (2), so she had French toast. Then Gerry had eggs.

4.

NAME	STATE	DRINK
Ichabod	Oregon	lemonade
Lloyd	Illinois	orange juice
Otto	Louisiana	iced water

Ichabod doesn't live in Illinois (1) or Louisiana (3), so he lives in Oregon. He doesn't drink iced water (1) or orange juice (2), so he drinks lemonade. Lloyd doesn't live in Louisiana (1), so he lives in Illinois. He doesn't drink iced water (2), so he drinks orange juice. Then Otto lives in Louisiana and drinks iced water.

5.

NAME	JOB
Angelo	comedian
Becky	trapeze artist
Conrad	actor
Doreen	bellhop

Doreen is the bellhop (1). Then Conrad is the actor (2). Becky is not the comedian (3), so Angelo is, and Becky is the trapeze artist.

6.

PARENT	JOB	DAUGHTER
Dwight	carpenter	Celeste
Edna	butcher	Brenda
Frank	doctor	Alice

The doctor is not Dwight (2) or Edna (3), so Frank is the doctor. Brenda is not the carpenter's daughter (1) or the doctor's daughter (2), so she is the butcher's daughter. She isn't Dwight's daughter. (2), so Dwight isn't the butcher. Then Edna is the butcher, and Dwight is the carpenter. Dwight's daughter isn't Alice (1), so she is Celeste. Then Frank's daughter is Alice.

7.

SHORTEST				TALLEST
Uriah	Zennia	Wagner	Vivian	Yvonne

From clue 1, we have $U < W < V$. Using clue 2 with this, we get $U < W < V < Y$. Clue 3 puts Zennia between Uriah and Wagner, so we have $U < Z < W < V < Y$.

8.

FIRST NAME	LAST NAME	ADHESIVE
Cornelius	Marnar	rubber cement
Dolly	Norwood	glue
Lorna	Kingman	paste

Marnar is a boy (2), so he is Cornelius. He did not use glue (4) or paste (1, girl), so he used rubber cement. Dolly isn't Kingman (3), so Lorna is, and so Dolly is Norwood. Norwood didn't use paste (1), so Kingman did, and so Norwood used glue.

9.

FIRST NAME	LAST NAME	AGE
Leota	Richards	12
Min-Tan	Berry	11
Orchid	Young	10
Patrick	Salton	8

The 8 year old is a boy (2) but isn't Min-Tan, so he is Patrick. Orchid isn't 11 or 12 (3), so she is 10. Then Berry is 11 and Leota is 12 (3). This means Min-Tan is Berry. Also,

Leota is Richards (4). Salton is a boy (1), so he is Patrick, and Young is Orchid.

10.

NAME	CAR COLOR
Arnett	red
Bradley	gray
Church	yellow
Dawson	silver

The yellow car isn't owned by Arnett or Dawson (3) or Bradley (4), so Church owns it. Dawson's car isn't gray or red (2), so it is silver. Bradley's car isn't red (4), so it is gray, and so Arnett's car is red.

11.

NAME	RANK
Claudia	queen
Eunice	princess
Ferdinand	prince
Horace	king

The king and the prince are males, while the queen and the princess are females. Claudia isn't the princess, so she is the queen, and so Eunice is the princess. Ferdinand isn't the king, so Horace is, and so Ferdinand is the prince.

12.

FIRST			LAST
D	A	C	D

From clue 1, we have D, C, B. From clue 2, we have D, A, C. Combining these, we have D, A, C, B.

13.

NAME	TRANSPORTATION
Riley	train
Shuttle	bus
White	plane

Riley didn't go by plane (1) or by bus (3), so he went by train. White didn't go by bus (2), so Shuttle did, and so White went by plane.

14.

NAME	ROLE
Anna	detective
Luis	songwriter
Ramon	model
Thomas	butler

Anna is the only girl, so she is the detective (1). The model isn't Luis or Thomas (3), so he is Ramon. Luis isn't the butler (2), so Thomas is, and so Luis is the songwriter.

15.

NAME	TEST	GRADE
Dori	music	C
Juanita	spelling	A
Leona	reading	B

Neither Dori nor Juanita took the reading test (1), so Leona took it. Dori's grade was C (1). Then Dori didn't take the spelling test (2), so Juanita did, and so Dori took the music test. The reading test grade wasn't A (2), so the spelling test grade was A, and the reading test grade was B.