

8. In the Army

Two women and two men (**Ann**, Brett, Dje-Da, and Eliza) are in the army. Their ranks, from lowest to highest, are corporal, sergeant, first lieutenant, and major. Their last names are Hunt, Jackson, Paul, and Younger.

Find each person's full name and rank.

1. There are a total of six syllables in each person's full name and rank.
2. The first lieutenant likes her life in the army.
3. Hunt has a lower rank than Younger but a higher rank than Paul.

Chart for Problem 8

	Hunt	Jackson	Paul	Younger	corporal	first lieutenant	major	sergeant
Ann								
Brett								
Dje-Da								
Eliza								
corporal								
lieutenant								
major								
sergeant								

of the standings (high to low) is: Francine, Igor Amwell, Hector Drake. Igor Amwell's standing was higher than Edith's (4), so Francine had first place and Igor had second place. Hector didn't place third (5), so Edith did, and Hector placed fourth. Francine (first place) isn't Boswell (1), so Edith is, and Francine is Cross.

7.

NAME	JOB	TELEPHONE COLOR
Jeanette	paper route	green
Marcia	carpenter's apprentice	ivory
Saralee	cook	blue
Theodora	delivery person	white

Two of the girls live on one street, and the other two live on another street (1). One of these pairs of girls are the carpenter's apprentice and the person with the white

telephone (1). Jeanette and the cook are also one of these pairs (2), but they are not the same pair, since the cook neither has the white telephone (4) nor is the carpenter's apprentice. Then Jeanette and the cook are the other pair in clue 1—that is, they are Saralee and the person with the green telephone. Jeanette isn't Saralee, so she has the green telephone, and so Saralee is the cook.

Then the carpenter's apprentice and the person with the white telephone (1) are also Marcia and the delivery person (2). The carpenter's apprentice isn't the delivery person, so she is Marcia. Then the delivery person has the white telephone. The delivery person is not Jeanette (green telephone), Marcia (2), or Saralee (cook), so she is Theodora. Then Marcia, who lives on the same street as Theodora (2), has the ivory telephone (3). This leaves Saralee with the blue telephone and Jeanette with the paper route.

8.

FIRST NAME	LAST NAME	RANK
Ann	Hunt	lieutenant
Brett	Jackson	corporal
Dje-Da	Younger	major
Eliza	Paul	sergeant

The lieutenant is a woman (2) but is not Eliza (1), so she is Ann. Since no last name has more than two syllables, Brett is the corporal (1). Then Brett is either Jackson

or Younger (1). He isn't Younger (3, corporal), so he is Jackson. Since Dje-Da is either a sergeant or a major,

his last name has two syllables (1), so he is not Hunt or Paul. Then Dje-Da is Younger. Younger is not a sergeant (3), so he is a major. This makes Eliza the sergeant. Paul isn't Ann (3, lieutenant), so she is Eliza, and Ann is Hunt.

9.

NAME	AGE	PET	HOUSE
Ed	11	dog	frame
Marie	9	parakeet	aluminum siding
Natalie	10	cat	brick
Quentin	13	gerbil	stucco

The 11-year-old is not Marie or Natalie (7) or Quentin (4), so he is Ed. The owner of the cat is not 9 or 13 (9) or 11 (1, Ed), so he or she is 10. Then Marie is 9 (9). The cat is owned by a girl (8) but not by Marie (9), so Natalie owns the cat. Then Quentin is 13. The parakeet is owned by a girl (5), so Marie has the parakeet. The girls are 9 and 10, so the dog owner has to be 11 (3), and Marie, 9 years old, lives in the house with aluminum siding (3). Quentin is left to own the gerbil. Then Quentin lives next door to Marie (2), so he doesn't live in the brick house (6, Marie is 9 years old) or the frame house (4), so he lives in the stucco house. Ed, 11 years old, lives a block away from Quentin (4), who lives next door to Marie (2), so Ed doesn't live in the brick house (6). Then Natalie lives in the brick house, and Ed lives in the frame house.

10.

FIRST NAME	LAST NAME	POSITION
Alton	Haller	second base
Brian	Ergen	first base
Carlton	Gruman	shortstop
Delbert	Flore	third base

The second and third basemen are single, while the first baseman and the shortstop are married (2). Carlton is married (4), but he isn't the first baseman (4), so Carlton is the

shortstop. Brian is the first baseman (4, 2), and Carlton is Gruman (4, 2). Alton is not the third baseman (1), so he is the second baseman, and Delbert plays third base. Delbert is not Ergen (1, third base) or Haller (3), so he is Flore. Alton is not Ergen (1), so Brian is, and Alton is Haller.