Family Pyramid<br>by Mark T. Zegarelli<br>GAMES February 2013

Five families (surnamed Grant, Oswald, Roensch, Sears, and Zorn), each with a different number of children (between one and five), went to the new Geo-Playground that was recently built in our neighborhood. The girls (Beth, Elizabeth, Francie, Harriet, Irene, Mina, Penny, Tara, and Vonda) and boys (Al, Chuck, David, Jack, Kyle, and William) found many fun things to climb on, but by far, the most popular was the five-level cubic pyramid shown below. At the height of the fun, one of the adults present suggested a group picture. Since there were fifteen kids, each stood on a different numbered space on the pyramid for the photo. Can you discover each child's full name, age (between 5 and 15), and position on the pyramid?

## CLUES

1. The group includes no more than two children of any particular age.
2. No child under 10 years old stood in a position on the pyramid that was higher than the secondlowest level.
3. The only pair of children in one family who are the same age are the 13 -year-old identical twins; their family doesn't include three children who are of the same sex.
4. The only pair of children in one family who are just one year apart in age are Jack and his only sister.
5. The top three levels contain at least one child from each family.
6. Irene stood immediately east of a sibling, and somewhere to the west of a 5 -year-old.
7. The three children who stood on spaces with numbers equal to their ages were Harriet, a child exactly twice as old as Chuck Sears, and a child exactly three years younger than Francie. These three children aren't all from the same family.
8. Kyle has a sister who stood immediately east of a boy.
9. Either all of the Grant children stood at positions on different levels, or all of them stood at positions on the same level; at least one of them is a boy.
10. The age of the only child is one greater than the number of a space where a boy stood.
11. Al has a sibling named Beth and a 10 -year-old sibling, who is the only 10 -year-old in the group. Al has no siblings older than 10.
12. Elizabeth has a sister who is at least one year older than any of the other girls in the group.
13. Mina Zorn is standing to the west of David and to the east of a sibling of David.
14. The family of five includes: the eldest child in the family, the youngest child in the family, a child who is an even number of years old, Penny, and the only girl in the family who is younger than Penny.
15. William's brother stood in a level two levels below Vonda.
16. The Roensch family has one fewer girl than boys.
17. The only 12-year-old in the group is surnamed Oswald.
18. Tara (who is exactly one year younger than one of the boys in the group) stood immediately west of her 11-year-old sister.
19. Only one of the children stood at a position whose number was exactly five times the position number of one of his or her siblings.

