Solving Logic Mysteries

Written by Rebecca Stark
Illustrated by Karen Birchak
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Mid-Movie Munchies

For Rachel’s tenth birthday, her mother took her and five of her friends to the movies. Before the movie started, Rachel’s mom told the girls to decide what snack they wanted and to write their name and the snack on a piece of paper. They did as she asked and passed the paper back to her.

Rachel’s mom waited until the movie was about halfway over and then went to the refreshment stand. Imagine her surprise when she saw that the paper had been torn to shreds. She must have torn it during the scary parts of the movie without realizing what she was doing! Luckily, she could still read the names of the snacks. She bought the snacks, but she did not know who got what.

The girls’ names were Rachel, Juana, Alexandra, Pauline, Brianna, and Lisa. The snacks—in no particular order—were chocolate bar, licorice sticks, ice cream, peanuts, pretzels, and popcorn.

Which girl asked for which snack?

Clues

1. The girl with the longest name asked for the chocolate bar.

2. The girl who asked for licorice was the only one wearing a green sweater.

3. Rachel was wearing a red sweater.

4. The girl with the shortest name asked for peanuts.

5. Juana dropped a piece of her snack on the girl sitting next to her, who was eating licorice.

6. The girl eating licorice sat between Lisa and the girl eating pretzels.

7. Pauline had on a sweater whose color comes from mixing blue and yellow.

8. Brianna complained that some of her kernels hadn’t popped.
Matrix for Mid-Movie Munchies

<table>
<thead>
<tr>
<th></th>
<th>chocolate</th>
<th>licorice</th>
<th>ice cream</th>
<th>peanuts</th>
<th>pretzels</th>
<th>popcorn</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rachel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Juana</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alexandra</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pauline</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brianna</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lisa</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
The boys did so well at soccer practice that Coach Bill offered to take them to The Scoop. The Scoop was a new ice-cream parlor that featured fifty flavors! After getting permission from their parents, six of the boys went with the coach to the ice-cream parlor.

Jim, John, Jack, Joe, Jeff, and Jerry sat at a table and studied the list of flavors. After what seemed like a very long time to Coach Bill, the boys chose their flavors. The flavors they picked were chocolate-peanut butter, banana, peach, cookie dough, vanilla, and candy cane. One of these flavors sounded so good to Coach Bill that he ordered the same one!

Which boy ordered which flavor? Which flavor did Coach Bill order?

**Clues**

1. Jack teased the boy who ordered vanilla.

2. Jeff’s ice cream was not made with any fruit.

3. The only kid who played goalie ordered cookie-dough ice cream.

4. If you wrote the names alphabetically, the name of the boy who ordered banana would come fifth.

5. Coach Bill ordered the same flavor as the boy who caught five balls and stopped a total of ten goals from scoring during the last game.

6. The boy who ate cookie dough has the longest name; he would have preferred the flavor Jack ordered, but he was allergic to nuts.

7. Jeff and the person who ordered candy cane were brothers.

8. Figure out the pattern and fill in the blank to find out the number of letters in the name of the boy who chose candy cane.

   18, 15, 12, 9, 6, ___
Matrix for Fifty Flavors

<table>
<thead>
<tr>
<th></th>
<th>chocolate-peanut butter</th>
<th>banana</th>
<th>peach</th>
<th>cookie dough</th>
<th>vanilla</th>
<th>candy cane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jim</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>John</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jack</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Joe</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jeff</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jerry</td>
<td></td>
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</tr>
</tbody>
</table>

Coach Bill ordered __________________________.