Logic Puzzles

For each puzzle, solve the problem based on the information given. For this problem, you may want to use a 3 x 6 grid.

Puzzle 1: Kid’s Candy

Problem:

What is each child’s age and favorite candy?

Introduction:

Aaron, Alma, and Andrew are siblings. Their ages range from 3 to 5 years old, and their favorite candy is either Skittles, Hershey’s Kisses, or Jolly Ranchers. Each child likes a different type of candy.

Clues:

1. Alma is allergic to chocolate.
2. Aaron does not like Jolly Ranchers.
3. Andrew is the oldest.
4. Alma is younger than Andrew but older than Aaron.
5. Andrew likes Jolly Ranchers.

Workspace:

Puzzle 2: Beethoven’s Wig

Problem:

Where is Beethoven’s wig, and which key should you use?

Introduction:

Someone has stole Beethoven’s wig, and has put it in one of four locked boxes. The boxes are numbered 1, 2, 3, and 4 from left to right. There are four keys for each box, each a different color. Use the clues below to figure out which key goes in which box and where the wig is being kept. You may want to use a 5 x 4 grid.

Clues:

1. The green key goes to the third or fourth box.
2. The wig is to the left of the fourth box.
3. The wig is to the right of the first box.
4. The yellow key is to the left of the wig.
5. The blue key is to the right of the yellow key and to the left of the green key.
6. The red key goes to the first box.

Workspace:

Puzzle 3: Students’ Grades

Problem:

What is the last name of each student, what grade did each student earn, and who is their teacher?

Introduction:

Abby, Alison, and Adam each take a different elective- band, art, or programming. Each student got a test back on Friday- the scores were 100, 80, and 50. Lastly, each student has a different last name- Anderson, Grey, or Smith. Use the clues below to match each student to his/her class, grade, and last name.

Clues:

1. Adam failed, but he does not have either band or art.
2. The Anderson student earned a 100.
3. Alison enjoys art, and her last name does not begin with an A.
4. The student with the last name of Grey is female.

Workspace:

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For each puzzle, solve the problem based on the information given. For this problem, you may want to use a 3 x 6 grid.

Puzzle 1: Kid’s Candy

Problem:

What is each child’s age and favorite candy?

Introduction:

Aaron, Alma, and Andrew are siblings. Their ages range from 3 to 5 years old, and their favorite candy is either Skittles, Hershey’s Kisses, or Jolly Ranchers. Each child likes a different type of candy.

Clues:

1. Alma is allergic to chocolate.
2. Aaron does not like Jolly Ranchers.
3. Andrew is the oldest.
4. Alma is younger than Andrew but older than Aaron.
5. Andrew likes Jolly Ranchers.

Workspace:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Skittles | Hershey’s | Jolly | 3 | 4 | 5 |
| Aaron | X | X | X | O | X | X |
| Alma | O | X | X | X | O | X |
| Andrew | X | X | O | X | X | O |

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Clues:

1. The green key goes to the third or fourth box.
2. The wig is to the left of the fourth box.
3. The wig is to the right of the first box.
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5. The blue key is to the right of the yellow key and to the left of the green key.
6. The red key goes to the first box.

Workspace:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 |
| Green | X | X | X | O |
| Yellow | X | O | X | X |
| Blue | X | X | O | X |
| Red | O | X | X | X |
|  |  |  |  |  |
| Wig | X | X | O | X |

Puzzle 3: Students’ Grades

Problem:

What is the last name of each student, what grade did each student earn, and who is their teacher?

Introduction:

Abby, Alison, and Adam each take a different elective- band, art, or programming. Each student got a test back on Friday- the scores were 100, 80, and 50. Lastly, each student has a different last name- Anderson, Grey, or Smith. Use the clues below to match each student to his/her class, grade, and last name.

Clues:

1. Adam failed, but he does not have either band or art.
2. The Anderson student earned a 100 and is not male.
3. Alison enjoys art, and her last name does not begin with an A.
4. The student with the last name of Grey is female.

Workspace:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Band | Art | Prog | 100 | 80 | 50 | And | Grey | Smith |
| Abby | O | X | X | O | X | X | O | X | X |
| Alison | X | O | X | X | O | X | X | O | X |
| Adam | X | X | O | X | X | O | X | X | O |