Learn a new puzzle

Logic Grids

Use the clues to fill the grid with checks and Xs.

	drum	flute	guitar	violin	art	chess	garden	robot
Rio						X		
Jamal					X	✓	X	X
Casey						X		
Owen						X		
art								
chess								
garden								
robot								

1. Rio plays the violin or is in the robot club, but not both.
2. Jamal is in the chess club.
3. The kid who plays the violin is not in the chess club.
4. Owen plays the flute or is in the robot club, but not both.
5. The kid who plays the drum is not in the chess club.
6. Owen plays the flute or is in the chess club, but not both.
7. Casey plays the guitar or is in the art club, but not both.

1. A clue says two things go together: put a check.
2. A check means X for the rest of its row and column.
3. Only one box left in a row or column? It gets the check.

Which clue told you that?

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1 Logic Grids

Use the clues to fill the grid with checks and Xs.

	green	orange	purple	yellow	bird	cat	dog	turtle
Owen								
Ethan								
Vera								
Leo								
bird								
cat								
dog								
turtle								

1. Leo wears purple or has the cat, but not both.
2. Leo wears purple.
3. Owen wears either purple or yellow.
4. Owen wears orange or has the dog, but not both.
5. Ethan wears yellow or has the bird, but not both.
6. Ethan wears orange or has the turtle, but not both.

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2 Logic Grids

Use the clues to fill the grid with checks and Xs.

	drum	flute	piano	trumpet	golf	hockey	tennis	volleyball
Hana								
Adam								
Ben								
Dakota								
golf								
hockey								
tennis								
volleyball								

1. Adam plays the trumpet.
2. Ben plays either tennis or volleyball.
3. Hana plays the piano or plays golf, but not both.
4. Hana plays the flute or plays volleyball, but not both.
5. Ben does not play tennis.
6. Dakota plays either the piano or the trumpet.
7. Dakota plays either hockey or volleyball.

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3 Logic Grids

Use the clues to fill the grid with checks and Xs.

	dog	fish	rabbit	turtle	art	book	chess	robot
Arjun								
Noah								
Yara								
Malik								
art								
book								
chess								
robot								

1. Malik has the turtle.
2. Malik is not in the chess club.
3. Yara is not in the chess club.
4. The kid with the fish is not in the art club.
5. Noah has the rabbit or is in the robot club, but not both.
6. Noah has either the dog or the turtle.
7. Arjun has either the rabbit or the turtle.

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4 Logic Grids

Use the clues to fill the grid with checks and Xs.

	drum	guitar	piano	violin	baseball	hockey	tennis	volleyball
Hiro								
Ezra								
Zion								
Arjun								
baseball								
hockey								
tennis								
volleyball								

1. Arjun does not play volleyball.
2. Hiro plays either the drum or the violin.
3. The kid who plays the piano does not play hockey.
4. Zion plays hockey.
5. Arjun does not play the violin.
6. Hiro does not play the violin.
7. The kid who plays the violin plays tennis.

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5 Logic Grids

Use the clues to fill the grid with checks and Xs.

	apples	grapes	popcorn	pretzels	baseball	hockey	tennis	volleyball	age 6	age 7	age 8	age 9
Mia												
Ella												
Vera												
Alex												
age 6												
age 7												
age 8												
age 9												
baseball												
hockey												
tennis												
volleyball												

1. Ella does not like grapes.
2. Ella is two years older than the kid who plays tennis.
3. The kid who likes apples plays baseball.
4. Alex is younger than the kid who plays tennis.
5. The kid who plays tennis is younger than the kid who likes grapes.
6. The kid who likes pretzels is 7.
7. Mia plays either baseball or tennis.
8. Ella plays either tennis or volleyball.

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6 Logic Grids

Use the clues to fill the grid with checks and Xs. ☆☆

	blue	green	orange	purple	apples	crackers	grapes	pretzels	Monday	Tuesday	Wednesday	Thursday
Ines												
Malik												
Jamie												
Nia												
Monday												
Tuesday												
Wednesday												
Thursday												
apples												
crackers												
grapes												
pretzels												

1. Nia visits you on an earlier day than the kid who likes crackers.
2. Jamie visits you the day after Malik.
3. Malik visits you on Tuesday.
4. The kid in purple likes pretzels.
5. The kid in purple visits you two days after the kid who likes grapes.
6. Jamie wears orange or visits you on Tuesday, but not both.
7. The kid in blue does not like apples.

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7 Logic Grids

Use the clues to fill the grid with checks and Xs.

	carrots	grapes	popcorn	pretzels	dog	fish	rabbit	turtle	age 6	age 7	age 8	age 9
Mia												
Ben												
Rafael												
Esme												
age 6												
age 7												
age 8												
age 9												
dog												
fish												
rabbit												
turtle												

1. The kid who likes pretzels is younger than the kid who likes popcorn.
2. Esme has the turtle.
3. The kid who likes carrots has the fish.
4. Mia is 7.
5. Ben is younger than Rafael.
6. The kid who likes pretzels is younger than the kid with the rabbit.
7. The kid who likes carrots is younger than the kid who likes pretzels.
8. Mia likes carrots or is 9, but not both.
9. Mia is younger than the kid with the turtle.

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8 Logic Grids

Use the clues to fill the grid with checks and Xs.

	apples	carrots	crackers	grapes	baseball	hockey	tennis	volleyball	age 6	age 7	age 8	age 9
Ben												
Noor												
Chloe												
Rowan												
age 6												
age 7												
age 8												
age 9												
baseball												
hockey												
tennis												
volleyball												

1. The kid who plays hockey is younger than Chloe.
2. Noor is younger than the kid who plays hockey.
3. The kid who plays tennis is one year older than Rowan.
4. Noor does not like carrots.
5. The kid who likes grapes is one year older than the kid who plays baseball.
6. The kid who likes crackers is one year older than Chloe.

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9 Logic Grids

Use the clues to fill the grid with checks and Xs. ☆☆☆

	blue	orange	red	yellow	carrots	crackers	grapes	popcorn	age 6	age 7	age 8	age 9
Owen												
Elena												
Julia												
Hugo												
age 6												
age 7												
age 8												
age 9												
carrots												
crackers												
grapes												
popcorn												

1. The kid in orange is younger than the kid who likes grapes.
2. Owen wears blue or likes carrots, but not both.
3. Elena wears red or likes carrots, but not both.
4. Julia likes crackers.
5. Julia is one year older than the kid who likes grapes.
6. The kid in blue is not 7.
7. Elena wears blue or is 9, but not both.

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10 Logic Grids

Use the clues to fill the grid with checks and Xs. ☆☆☆

	carrots	crackers	popcorn	pretzels	bird	fish	rabbit	turtle	age 6	age 7	age 8	age 9
Oscar												
Maya												
Eli												
Lucy												
age 6												
age 7												
age 8												
age 9												
bird												
fish												
rabbit												
turtle												

1. Maya has either the bird or the rabbit.
2. Lucy is younger than the kid who likes pretzels.
3. Lucy has either the rabbit or the turtle.
4. The kid with the rabbit is one year older than the kid who likes carrots.
5. The kid with the turtle is not 7.
6. Eli likes popcorn.
7. Lucy is younger than Oscar.
8. Maya is two years older than the kid with the bird.

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Answers

For grown-ups. Cut off or keep this page aside until the puzzles are done.

Learn · Logic Grids

Rio: drum, robot
Jamal: guitar, chess
Casey: violin, art
Owen: flute, garden

#1

Owen: yellow, dog
Ethan: orange, bird
Vera: green, cat
Leo: purple, turtle

Hardest step: clue 3: one of the two, so the other gets an X.

#2

Hana: flute, golf
Adam: trumpet, tennis
Ben: drum, volleyball
Dakota: piano, hockey

Hardest step: clue 2: one of the two, so the other gets an X.

#3

Arjun: rabbit, chess
Noah: dog, robot
Yara: fish, book
Malik: turtle, art

Hardest step: clue 6: one of the two, so the other gets an X.

#4

Hiro: drum, volleyball
Ezra: violin, tennis
Zion: guitar, hockey
Arjun: piano, baseball

Hardest step: clue 2: one of the two, so the other gets an X.

#5

Mia: pretzels, tennis, 7
Ella: popcorn, volleyball, 9
Vera: grapes, hockey, 8
Alex: apples, baseball, 6

Hardest step: clue 8: one of the two, so the other gets an X.

#6

Ines: purple, pretzels, Thursday
Malik: blue, grapes, Tuesday
Jamie: orange, crackers, Wednes
Nia: green, apples, Monday

Hardest step: clue 6: one of the two, so the other gets an X.

#7

Mia: carrots, fish, 7
Ben: grapes, dog, 6
Rafael: popcorn, rabbit, 9
Esme: pretzels, turtle, 8

Hardest step: clue 8: one of the two, so the other gets an X.

#8

Ben: crackers, volleyball, 9
Noor: apples, baseball, 6
Chloe: carrots, tennis, 8
Rowan: grapes, hockey, 7

Hardest step: clue 1: the order clue rules out places.

#9

Owen: orange, carrots, 6
Elena: red, popcorn, 9
Julia: blue, crackers, 8
Hugo: yellow, grapes, 7

Hardest step: one what-if: that box would clash with the clues.

#10

Oscar: carrots, fish, 8
Maya: pretzels, rabbit, 9
Eli: popcorn, bird, 7
Lucy: crackers, turtle, 6

Hardest step: one what-if: that box would clash with the clues.

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