

Use Your Brain



LOGIC PUZZLES

The study of logic goes back to the Ancient Greeks, but these puzzles come straight out of the Ossining Public Library! Focus your mind and see if you can solve them!

#1: THE FORBIDDEN COOKIES

Five kids were sitting at a table in the library. Under the table was an empty pack of cookies. Crumbs were everywhere. The librarian asked who did it and of course no one admitted their guilt.

However, each kid made two statements about who was responsible and the librarian knew that for each kid, one statement was true and the other was a lie:

"Pilar did it!" Eduardo said .

"No she didn't!" said Carlos.

"Yeah, Eduardo did it," said Briana

"Of course Eduardo did it," said Pilar. "That's why he blamed me!"

"It wasn't Eduardo," Robert said. "It was Carlos!"

"Actually, now I think it was Robert," Pilar said.

"Carlos didn't do it," Briana said.

"Stop trying to be nice Briana, you know you did it," said Carlos.

"Briana doesn't even like cookies," said Eduardo. "It wasn't her."



Can you figure out who made the mess?

#2: Discovering Who Discovered Their World



This year at our geography bee we had four finalists!

Sophia, Paul, Juan, and Alexandra competed in three categories of geographic knowledge: Countries, Nature, and Architecture. Using these clues, figure out what place each one reached in each category

The person who came in second in Nature came in third in Architecture

The person who came in second place in Nature came in third in Countries.

The person who came in second in Architecture came in last in Countries

Alexandra didn't come in third place in anything

Juan came in first in two categories, but last in the other one

Sophia came in second in Countries

Paul did one place better than Juan in Architecture

Logic Puzzle Solutions

Forbidden Cookies

It was Robert! Pilar said that both Eduardo and Robert did it and we know one of those is true. Robert said it was not Eduardo and that Carlos did it. Since we know Carlos didn't do it, that must be the lie. So Robert saying Eduardo didn't do it must be true!
Robert caught himself!

Discover Who Discovered Their World

Countries:

First-Juan, Second-Sophia, Third-Paul,
Fourth-Alexandra

Nature:

First-Juan, Second-Paul, Third-Sophia,
Fourth-Alexandrea

Architecture:

First-Sophia, Second-Alexandra, Third-Paul,
Fourth-Juan

Medium

- 7) 3,4,12
- 8) 1,1,12
- 9) 2,2,6
- 10) 4,4,5

Hardest

- 23) 2,3,12,12
- 24) 10,8,12,6

Use Your Brain

ANSWERS

- 1) $6+9+9=24$
- 2) $36-12=24$
- 3) $2 \times 12=24$
- 4) $3 \times 8=24$
- 5) $7-2+19$
- 6) $11+13-12$
- 7) $(3 \times 4)+12$
- 8) $(1+1) \times 12$
- 9) $(3 \times 4)+12$
- 10) $(5 \times 4)+4$
- 11) $(6 \times 8)/2$
- 12) $(7-5) \times 12$
- 13) $(40+8)/2$
- 14) $(9-1) \times 3$
- 15) $(3 \times 3 \times 3)-3$
- 16) $(7 \times 4)-4$
- 17) $(2/2) \times 1 \times 24$
- 18) $(1+1+2) \times 6$
- 19) $(10+30+8)/2$
- 20) $(14-13) \times (2 \times 12)$
- 21) $(5+7) \times (6-4)$
- 22) $(11-5) \times 4$
- 23) $((12/3)/2) \times 12$
- 24) $((10-8) \times 6)+12$