GeniusKite

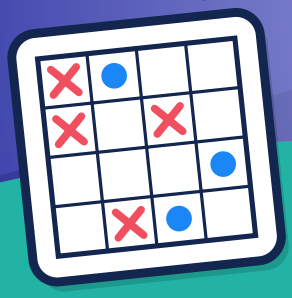
Thinking skills for kids in the age of AI

# Kids' Thinking Puzzles and Activities in the Age of AI

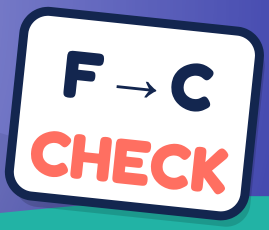
## Fun Puzzles That Build Thinking Skills

Ages 11-14
Grades 6-8







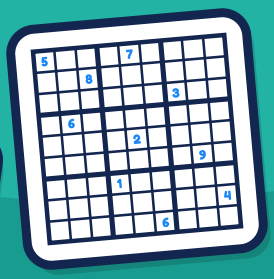












114 Logic, Number, Code & Fact-Check Puzzles

GeniusKite Team

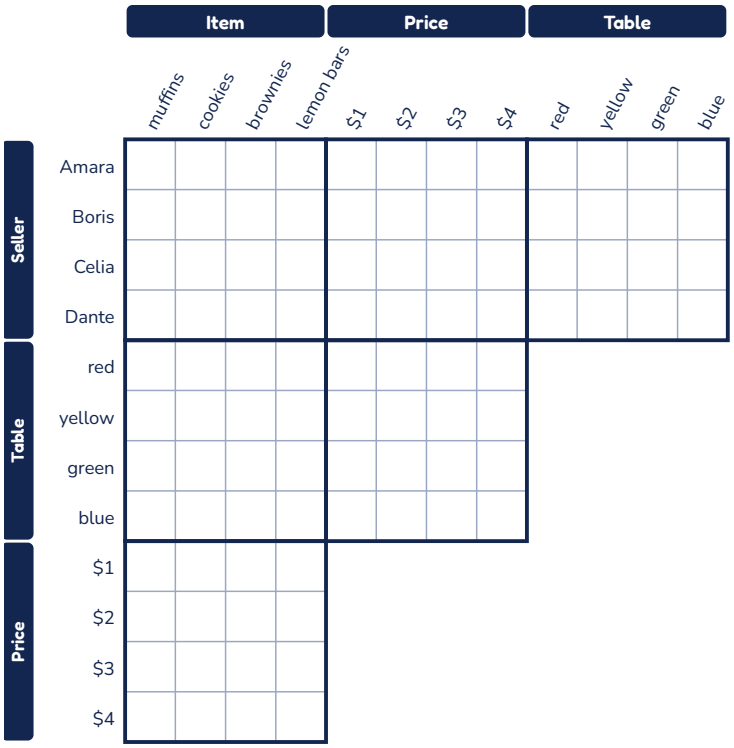
# Logic Grids

Name _____ Date _____ Time taken _____

## #5 Bake Sale

Core ◆◆◇

Four students sold one baked item each at the school bake sale, each at a different table and price. Each seller matches exactly one item in every category. Mark ✗ for "no" and ● for "yes" in the grid.




### Clues

1. The seller of the muffins either sat at the blue table or charged $4 each.
2. The seller of the lemon bars charged $1 more than the seller of the brownies.
3. Of Boris and Dante, one sat at the blue table and the other sat at the yellow table.
4. The seller at the red table either sold cookies or charged $2 each.
5. Of the seller at the green table and the seller at the red table, one charged $1 each and the other charged $4 each.
6. The seller at the green table charged less than the seller of the lemon bars.
7. Boris charged $2 more than Celia.

**Final answer**

| Seller | Item | Price | Table |
|---|---|---|---|
| Amara | | | |
| Boris | | | |
| Celia | | | |
| Dante | | | |

# Codes & Ciphers



Name _____ Date _____ Time taken _____

## #57 Caesar Decoder

Warm-up ◆◇◇

In a Caesar cipher, every letter is shifted the same number of places along the alphabet. This message was made by shifting each letter **3 places forward** (A→D, B→E, ..., X→A, Y→B, Z→C). Shift each letter 3 places back to decode it.

| Plain | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | A | B | C |

**F K H F N** **E H I R U H** **B R X** **V K D U H**

Work space

## #58 Your Turn to Encode

Warm-up ◆◇◇

Encode the message below with a Caesar shift of **5 forward** (A→F). Fill in the code row of the alphabet first, then use it.

| Plain | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | | | | | | | | | | | | | | | | | | | | | | | | | | |

**MEET AT THE LIBRARY**

Coded message: _____

Work space