FREE PRINTABLE · ANSWERS ON PAGE 2

Christmas Logic Puzzles

Each puzzle has exactly one answer that fits every clue. 2–5 minutes each.

POTLUCK #1 · WHO BROUGHT WHAT?

Ava, Ben and Cleo each brought one dish (gingerbread, cheese board or sugar cookies) and wore one sweater (reindeer, green or red). No two match.

- Ben didn't bring the sugar cookies.
- Whoever wore the reindeer sweater didn't bring the gingerbread.
- Whoever wore the green sweater brought the cheese board.
- Ben didn't bring the cheese board.
- Ava didn't wear the reindeer sweater.

What did Cleo bring, and which sweater did Cleo wear?

MASQUERADE #1 · TRUTH-TELLERS AND FIBBERS

At the masquerade, every guest is a Truth-teller (always tells the truth) or a Fibber (always lies).

- Ana says: “Cy is a Fibber.”
- Bram says: “Cy tells the truth.”
- Cy says: “Bram and I are the same type.”

Who tells the truth?

ORNAMENT ROW #1 · WHAT COMES NEXT?

Each ornament carries a number. They follow one rule.

- 3, 5, 9, 15, 23, ?

What number goes on the next ornament?

TABLE FOR FOUR #1 · SEATING PLAN

Four guests sit in a row of four chairs, numbered 1 to 4 from left to right.

- Cora doesn't sit next to Dan.
- Ben sits somewhere to the left of Dan.
- Dan sits at one end.
- Ben sits somewhere to the left of Cora.

Who sits in each chair, from left to right?

COOKIE SPLIT · PARTY MATH

A tray has 36 cookies. A third go to the kids' table, then half of what's left goes to the neighbors.

How many cookies are left on the tray?

ANSWERS

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No peeking until everyone is done.

Potluck #1: Cleo: the sugar cookies, reindeer sweater. Full grid: Ava – cheese board, green; Ben – gingerbread, red; Cleo – sugar cookies, reindeer.

Masquerade #1: Bram, Cy. It's the only assignment where every Truth-teller's statement is true and every Fibber's is false (checked against all 8 combinations).

Ornament row #1: 33 Add 2, 4, 6, 8, then 10.

Table for four #1: Ben, Cora, Ada, Dan. Only this order satisfies every clue (checked against all 24 orders).

Cookie split: 12 36 - 12 = 24 left after the kids; half of 24 is 12 for the neighbors; 24 - 12 = 12.

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