

Name _____

Cross-the-River Puzzle

A **farmer (F)** needs to get a **wolf (W)**, a **goat (G)**, and a **cabbage (C)** across a river. There's a boat that can carry the farmer **and exactly one** of W, G, or C at a time.

Rules

1. The farmer must be in the boat for any crossing.
2. If left alone **without the farmer** on one bank:
 - The **wolf will eat the goat**.
 - The **goat will eat the cabbage**.
3. The goal: Move **F, W, G, C** from the **Left Bank** → **Right Bank** safely.



Your Task

1. Plan the crossings (who goes each trip).
2. Keep track of who's on each bank after every move.
3. Make sure no one gets eaten!

Start: Left Bank = {F, W, G, C} | Right Bank = { }

Move Log

Move	Who crosses (with F)	Left Bank after move	Right Bank after move	OK? (✓ if safe)
1				
2				
3				
4				
5				
6				
7				

Minimum moves challenge: Can you do it in **7** crossings?

Reflection

When you got stuck, what did you try next—**trial and error**, **intuition**, or **planning ahead**?

Which is easier for **AI**: following strict rules step-by-step, or “feeling out” a tricky situation?

Which is easier for **humans**: imagining the whole puzzle at once, or listing moves one by one?
Why?