

Casano

Crossing The Bridge Problem

- Rachel - 1 minute
- Ben - 2 minutes
- George - 7 minutes
- Yvonne - 10 minutes

Quickest time = 17 minutes

first, Rachel and Ben will cross the bridge and so the total time is 2 minutes.

Rachel then returns with a torch. Rachel then gives the torch to George and Yvonne. They will take 10 minutes to cross. Therefore, 13 minutes have passed in total. Ben then returns with the torch taking another 2 minutes. Then Ben and Rachel return to the other side taking another 2 minutes and so, 17 minutes have passed!

My Strategy 1

- Since any pair of people will walk at the rate of the slower person I want Yvonne, George to only move once. And I want Ben, Rachel to move more often. This ensures that the 10 minute journey only happens once.

move	Time
Rachel - Ben	2
Rachel	1
George - Yvonne	10
Ben	2
Rachel - Ben	2
Total	17

by Casano