



Name _____

Teacher/Hour _____

SOLO It's Hard to Find Good Help!

Late at night in your mountaintop fortress, one of your henchmen has inadvertently activated the self-destruct sequence. You and your 3 chief lieutenants must escape with your diabolical plan. Unfortunately, mountaintop fortresses tend to be designed to without consideration for rapid egress; only 17 minutes remain for the four of you to cross the only bridge out. To make matters worse, it is nighttime, there is only one flashlight and the bridge is wide enough for only two people to cross at one time. Any party who crosses (either one or two people) must have the flashlight with them or risk plunging to their doom. The flashlight must be walked back and forth. It is too far to throw it. Each person walks at a different speed. A pair must walk together at the rate of the slower person's pace.

Name	Time to Cross
(You)	1 minute
Dr. Sinister	2 minutes
Harvey Evil, PhD	5 minutes
Torgo	10 minutes

For example, if you and Torgo walk across first, ten minutes have elapsed when you get to the other side of the bridge. If Torgo then returns with the flashlight, a total of twenty minutes have passed and you have failed the mission (or, if you prefer, you are alive but must find a new set of competent evil lieutenants). How can you get across the bridge safely without having to find new lieutenants?