

# What if Peggy cheats?

- Victor stands outside at  $P$
- Peggy picks  $R$  or  $S$  to hide at
- Victor comes back in, stands at  $Q$ , and calls out which side Peggy should return by
- If Peggy picked the correct side, she tricks Victor; otherwise, she has to admit she lied
- If Victor does this enough times, Peggy will guess wrong (one trial, 50% she succeeds; two trials, 25%; etc.)

