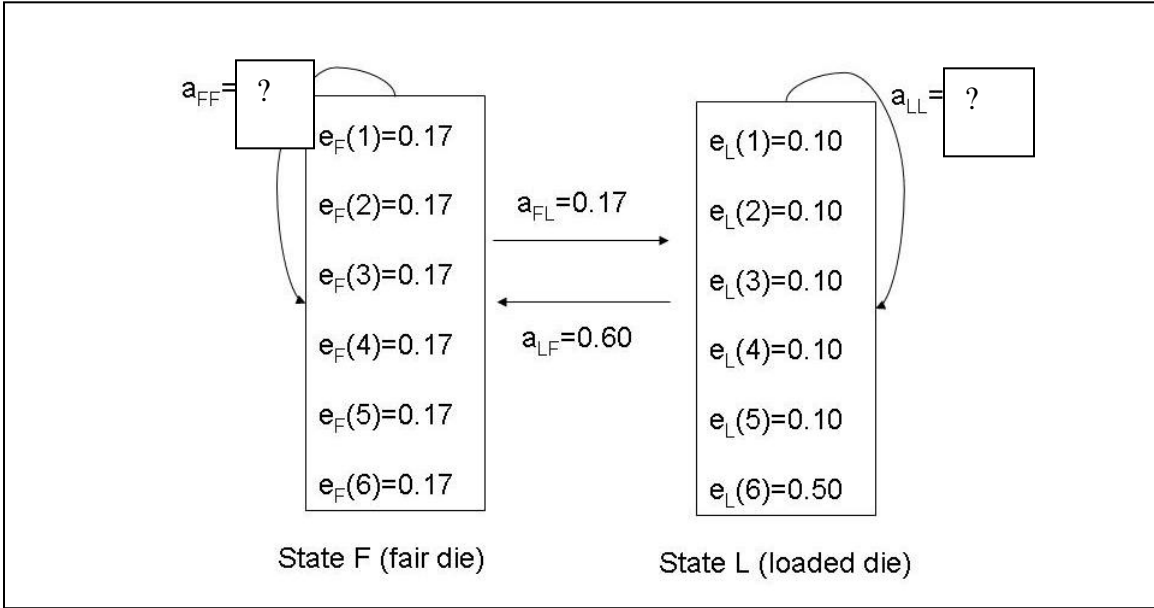


## Quiz 12. Markov models

1. Fill in the missing transitional probabilities for the following Markov model:



2. Build the Markov model diagram for the following system:

John has only one of 2 states of mind: he is either sad or happy. When he is happy one day, then he is happy the next day 1 time out of 3. When he is sad one day, he is also sad the next day 2 times out of 5.