G. Snake Eyes

Snake Eyes is a game whereby a player rolls two six-sided dice simultaneously. A win is declared if a player is able to get a one on each die.

Find the probability of

a) winning
b) not winning
c) getting a double
d) getting a double and winning
e) not getting a double

Express answers as percentages.

Use R for any calculations to solve this problem. Include in your answer the R-commands used to arrive at the solutions/results.