Q1：

Assume：

The probability that an examinee actually knew the answer is P1.

So, P1 = P + (1 - P) / m

Q2:

1. 

So the contestant should not change.

1. Before C was opened, the Prior Probability is all 
2. The posterior probability for A and B is both 
3. Because of (c), the contestant could choose A or B.

Q3:

If the sun rises all the day, we have:





So, we have: 