Sara’s Questions

1. WITHOUT REPLACEMENT: A snake enters a large bird’s nest with 18 eggs. 7 of these eggs are robin eggs and 11 are quail eggs. If two eggs are eaten successively, what is the probability that:
   1. At least one quail egg is chosen,
   2. A quail egg is eaten second given that a robin egg is eaten first.
2. WITH REPLACEMENT: A basketball player in the NBA has a probability of 0.3 of missing a three-pointer. He takes two three-pointers in a row, each shot being independent of the previous one. What is the probability that he:
   1. Makes at least one shot
   2. Makes no shots
   3. Makes two shots.