Quiz 3

1. (5 points) How many 0's are at the end of the base-10 representation of $100! = 1 \cdot 2 \cdot 3 \cdots 99 \cdot 100$?

2. (5 points) How many length-6 strings with alphabet $\{a, b, c\}$ have two a's or three b's (or both)?

(For fun) How many people do you need to guarantee that at least 6 have the same birth month?