**Socks in a drawer**

There are 20 socks in a drawer: 5 pairs of black socks, 3 pairs of brown and 2 pairs of white. You select the socks in the dark and can check them only after a selection has been made. What is the smallest number of socks you need to select to guarantee getting the following:

**1) Define the problem:**

1. The man needs to pick out matching pairs of socks, there are ten different pairs of socks. He needs to match each pair according to color.
2. Assumption is the socks aren’t paired and it is dark.

The goal is to select matching pairs of socks in the least amount of attempts