- 22 There are only red counters and yellow counters in a box.

 3 of the counters are red
 - $\frac{3}{5}$ of the counters are red.

 Sophie takes at random two counters from the box.

The probability that the two counters are the same colour is $\frac{41}{80}$

Work out the number of yellow counters in the box. You must show all your working.