# Dr Oliver Mathematics Worked Examples Probability 2 

From: Edexcel 2020 June Paper 2H (Calculator)

1. There are only red sweets and yellow sweets in a bag.

There are $n$ red sweets in the bag.
There are 8 yellow sweets in the bag.
Sajid is going to take at random a sweet from the bag and eat it.
He says that the probability that the sweet will be red is $\frac{7}{10}$.
(a) Show why the probability cannot be $\frac{7}{10}$.

After Sajid has taken the first sweet from the bag and eaten it, he is going to take at random a second sweet from the bag.

Given that the probability that both the sweets he takes will be red is $\frac{3}{5}$,
(b) work out the number of red sweets in the bag.

You must show all your working.

