

PROBABILITY

A bag of lollipops contains two fruit lollipops, one mint lollipop and two caramel lollipops.

Mark picks up successively two lollipops that he eats.

1. Model the situation and explain what can happen and what cannot happen.

2. Mark eats a fruit lollipop as a second lollipop.

What is the probability that his first pick was a caramel one ?

3. Instead of eating it, Mark only picks up one lollipop and puts it back it 5 times.

His friend tells him that his chance to pick at least once the mint one is more than 95%.

What do you think ?