

## Dorothy's Bag of sweets

### A puzzle

Dorothy has a bag of sweets. There are 6 orange sweets and a number of lemon sweets in the bag.

There is a 1 in 6 chance that the first 3 sweets she picks from the bag are orange

So, for a discount of £10 from the winter weekend if you come for the first time

1. How many lemon sweets are in the bag?
2. For a £25 discount from the winter weekend for first timers what are the chances of
  - a. the first 2 sweets being orange?
  - b. the first sweet being lemon?

The maximum discount is £25 even if you get both right!

Answers or queries to [publicity@m500.org.uk](mailto:publicity@m500.org.uk)

By the way: what shape are the sweets?