

Dr Oliver Mathematics
Worked Examples
Probability 1

From: Edexcel 2018 November Paper 1H (Non-Calculator)

1. There are only green pens and blue pens in a box. (6)

There are three more blue pens than green pens in the box.
There are more than 12 pens in the box.

Simon is going to take at random two pens from the box.
The probability that Simon will take two pens of the same colour is $\frac{27}{55}$.

Work out the number of green pens in the box.