Problem of the Week
Problem C
Playing with Disks

A bag contains circular disks. In the bag, there are 5 blue disks, 6 red disks, 3 green disks and 2 yellow disks. Several orange disks are added to the bag. All the disks in the bag are identical except for colour.

A disk is now randomly selected from the bag. The probability of a blue or green disk being selected is now $\frac{2}{7}$.

How many orange disks were added to the bag?

STRANDS   DATA MANAGEMENT AND PROBABILITY, PATTERNING AND ALGEBRA